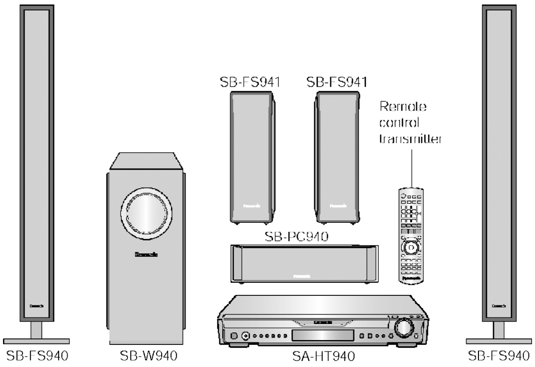
ORDER NO.MD0603057C1
A6

DVD Home Theater Sound System

SA-HT940P / SA-HT940PC

Colour

(S).......................Silver Type


SB-FS941
SB-FS941
Remote control transmitter
SB-PC940
SB-FS940
SB-W940
SA-HT940
SB-FS940

SPECIFICATIONS

Specifications

● **General**

Power Source:	**AC 120V, 60Hz**
Power consumption:	**150 W**
Dimensions (W×H×D):	**430×70×439.2 mm** **(16-15/16”×2-3/4”×17-19/64”)**
Mass:	**5 kg (11.02lbs)**

● **Amplifier section**

RMS Output Power: Dolby Digital Mode

● **Total RMS Dolby Digital mode Power:**	**1200 W**

At 1kHz and total harmonic of 10%

● **Front:**	**190 W/ Channel (8 Ω)**
● **Center:**	**320 W/ Channel (4 Ω)**
● **Surround:**	**90 W/ Channel (4 Ω)**

At 100Hz and total harmonic of 10%

● **Active subwoofers:**	**320 W/ Channel (4 Ω)**

FTC Output Power: Dolby Digital Mode:

● **Total FTC Dolby Digital mode Power:**	**860 W**

At 120Hz-20kHz and total harmonic of 1%

● **Front:**	**120 W/ Channel (8 Ω)**
● **Center:**	**250 W/ Channel (4 Ω)**
● **Surround:**	**60 W/ Channel (4 Ω)**

At 45Hz-120Hz and total harmonic of 1%

● **Subwoofer:**	**250 W/ Channel (4 Ω)**

● **FM tuner section**

Preset Memory::	**FM 15 stations** **AM/ MW 15 stations**
Frequency Range:	**87.9-107.9MHz** **(200kHz in step)** **87.5-108.0MHz** **(100kHz in step)**
Sensitivity:	**2.5 μ V (IHF)**
S/N 26dB	**2.2 μ V**
Antenna Terminals:	**75 Ω (unbalanced)**

● **AM tuner section**

Frequency Range:	**520-1710kHz (10kHz in step)**
AM Sensitivity S/N 20dB at 1000kHz:	**560 μ V/m**

● **Phone Jack:**

Terminal:	**Stereo 3.5 mm (1/8”) jack**

● **Front M. Port:**

Sensitivity:	**100mV (4.7k Ω)**
Terminal (Input):	**Stereo 3.5 mm (1/8”) jack**

● Disc section

Discs played [8 cm (3”) or 12 cm (5”)]:

(1) DVD [DVD-Video, DVD-Audio]
(2) DVD-RAM [DVD-VR, MP3(*2,5), JPEG(*4,5)]
(3) DVD-R [DVD-Video, DVD-VR, MP3(*2,5), JPEG(*4,5)]
(4) DVD-R DL [DVD-Video, DVD-VR]
(5) DVD-RW [DVD-Video, DVD-VR, MP3(*2,5), JPEG(*4,5)]
(6) +R/ +RW [Video]
(7) +R DL [Video]
(8) CD, CD-R/ RW [CD-DA, Video-CD, SVCD(*1), MP3(*2,5), WMA(*3,5), JPEG(*4,5), HighMAT Level 2 (Audio and Image)]

*1 Conforming to IEC62107
*2 MPEG-1 Layer 3, MPEG-2 Layer3
*3 Windows Media Audio Ver. 9.0 L3
- Not compatible with Multiple Bit Rate (MBR)

*4 Exif Ver 2.1 JPEG Baseline files
- Picture resolution: between 160 x 120 and 6144 x 4096 pixels (Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4). Extremely long and narrow pictures may not be displayed.

*5 The total combined maximum number of recognizable audio and picture contents and groups: 4000 audio and picture contents and 400 groups.

Pick up:	
Wavelength:	
● CD:	785nm
● DVD:	662nm
Laser power:	
● CD/ DVD: (P)	CLASS I/ CLASS II
● CD/ DVD: (PC)	CLASS 1M/ CLASS 1
Audio output (DISC):	
Number of channels:	5.1 ch (FL, FR, C, SL, SR, SW)
Audio performance:	
Frequency response:	
DVD (linear audio):	4 Hz-22 kHz (48 kHz sampling) 4 Hz-44 kHz (96 kHz sampling)
DVD-Audio:	4 Hz-88 kHz (192 kHz sampling)
CD-Audio:	4 Hz-20 kHz
S/N ratio:	
CD-Audio:	105 dB
Dynamic range:	
DVD (linear audio):	95 dB
CD-Audio:	95 dB
Total harmonic distortion:	
CD-Audio:	0.005 %

● Video section

Video system:

Signal system: NTSC

Composite video output:

Output level: 1 Vp-p (75 Ω)

Terminal: Pin jack (1 system)

S-video output:

Y output level: 1 Vp-p (75 Ω)

C output level: NTSC; 0.286 Vp-p (75 Ω)

Terminal S terminal (1 system)

Component video output (480p/480i):

Y output level: 1 Vp-p (75 Ω)

PB output level: 0.7 Vp-p (75 Ω)

PR output level: 0.7 Vp-p (75 Ω)

Terminal: Pin jack (Y: green, PB: blue, PR: red) (1 system)

HDMI AV output: 19 pin type A connector , HDMI Ver.1.2a (EDID Ver.1.3)

Power consumption in standby mode: approx 0.4W

Note:

1. Specifications are subject to change without notice. Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Solder:

This model uses lead free solder (PbF).

Mechanism:

This model uses RC1 (Rotary tray) mechanism.

System	**SC-HT940P**	**SC-HT940PC**
Main unit	**SA-HT940P**	**SA-HT940PC**
Speaker system	SB-HT940P	SB-HT940P
Active subwoofer	SB-W940P	SB-W940P[*4]

Speaker system	**SB-HT940P**
Front speakers	SB-FS940P[*1]
Center speaker	SB-PC940P[*2]
Surround speakers	SB-FS941P[*3]

Refer to the original service manual for *1, *2, *3, *4.

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.
WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

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HDCD®, HDCD®, High Definition Compatible Digital® and Pacific Microsonics™ are either registered trademarks or trademarks of Pacific Microsonics, Inc. in the United States and/or other countries.

HDCD system manufactured under license from Pacific Microsonics, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114, with other patents pending.

■ **Built-in decoders**

You can play discs with these symbols.

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1. Safety Precautions

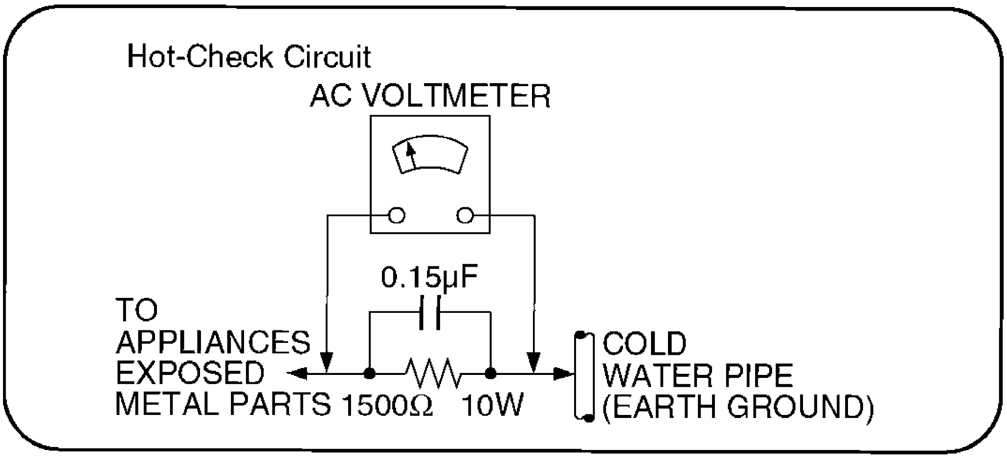
1.1. GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, carry out the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1


Hot-Check Circuit
AC VOLTMETER
0.15μF
TO
APPLIANCES
EXPOSED
METAL PARTS
1500Ω 10W
COLD
WATER PIPE
(EARTH GROUND)

1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15 μF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

1.2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C5736, C5737, C5741, C5742 through a 10 Ω, 10 W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 120 V, 60 Hz in NO SIGNAL mode volume minimal should be ~ 900 mA.

1.2.1. Caution for fuse replacement

(For English)
CAUTION:
Replace with the same type fuse:
(Manufacturer: LITTELFUSE, INC, Type: F1, 8A, 125V)

(For Canadian French)
ATTENTION:
Utiliser un fusible de rechange de mme type:
(Manufacturer: LITTELFUSE, INC, Type: F1, 8A, 125V)

1.3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. **Turn off the power.**
2. **Determine the cause of the problem and correct it.**
3. **Turn on the power once again after one minute.**

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

2. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate**

electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

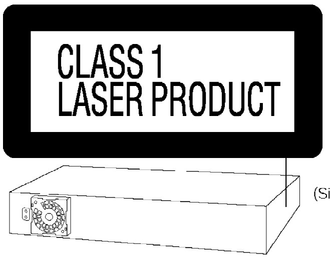
CAUTION:

This unit utilizes a class 1 laser.
Invisible laser radiation is emitted from the optical pickup lens.
Wavelength: 662nm(DVD)/785nm(CD).
Maximum output radiation power from pickup: 100 μ W/VDE
When the unit is turned on:

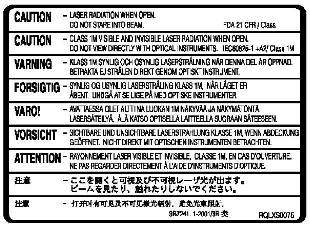
1. Do not look directly into the pick up lens.
2. Do not use optical instruments to look at the pick up lens.
3. Do not adjust the preset variable resistor on the pickup lens.
4. Do not disassemble the optical pick up unit.
5. If the optical pick up is replaced, use the manufacturer's specified

replacement pick up only.

6. **Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**



(Side of product)



CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR / Class
CAUTION	- CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1 +A2/ Class 1M
VARNING	- KLASS 1M SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.
FORSIGTIG	- SYNLIG OG USYNLIG LASERSTRÅLING KLASS 1M, NÅR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO!	- AVATTAESSA OLET ALTTIINA LUOKAN 1M NÄKYVÄÄ JA NÄKYMÄTÖNTÄ. LASERSÄTEILYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE.
注意	- ここを開くと可視及び不可視レーザ光が出ます。 ビームを見たり、触れたりしないでください。
注意	- 打开时有可见及不可见激光辐射，避免光束照射。 GB7241. 1-2001/3B 类 RQLXS0075

(Inside of product)

The laser product label has not been attached to products for the U.S.A and Canada

CAUTION:
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. About Lead Free Solder (PbF)

Distinction of PbF PCB: PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:

- **Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).**
- **Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).**

When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

5. Handling Precautions for Traverse Unit

The laser diode in the optical pickup unit may break down due to static electricity of clothes or human body. Special care must be taken avoid caution to electrostatic breakdown when servicing and handling the laser diode.

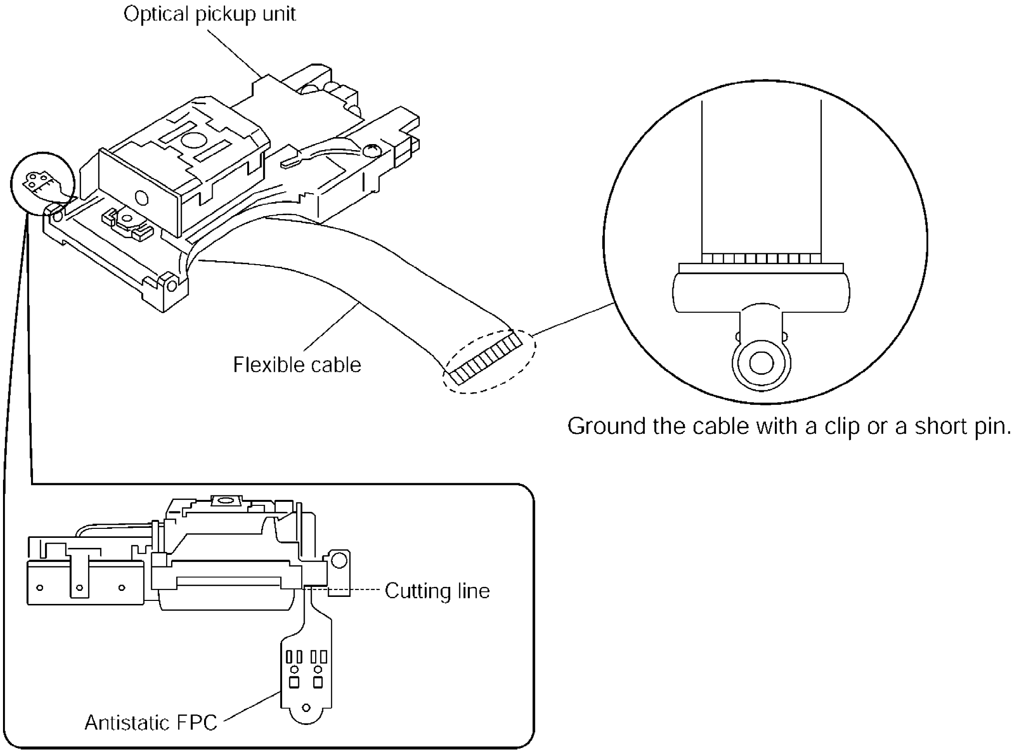
5.1. Cautions to Be Taken in Handling the Optical Pickup Unit

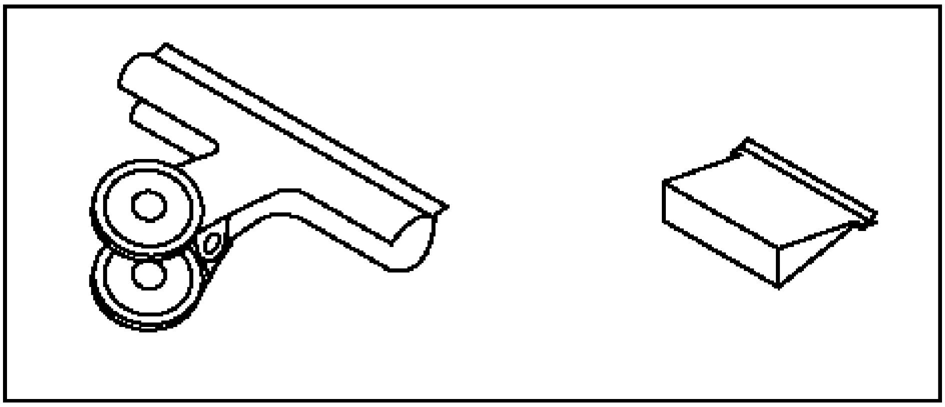
The laser diode in the optical pickup unit may be damaged due to electrostatic discharge generating from clothes or human body. Special care must be taken avoid caution to electrostatic discharge damage when servicing the laser diode.

1. **Do not give a considerable shock to the optical pickup unit as it**

has an extremely high-precise structure.

2. **To prevent the laser diode from the electrostatic discharge damage, the flexible cable of the optical pickup unit removed should be short-circuited with a short pin or a clip.**
3. **The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the flexible cable.**
4. **The antistatic FPC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexible cable, cut off the antistatic FPC.**


Optical pickup unit
Flexible cable
Ground the cable with a clip or a short pin.
Cutting line
Antistatic FPC



Clip or Short pin

5.2. Grounding for electrostatic breakdown prevention

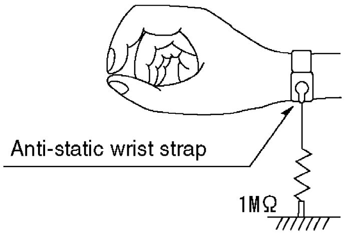
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

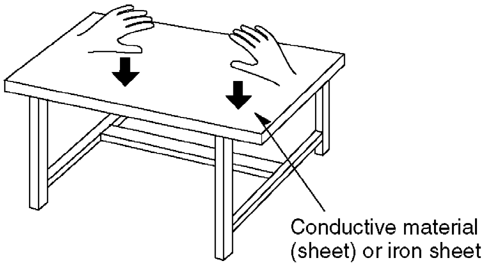
5.2.1. Worktable grounding

1. **Put a conductive material (sheet) or iron sheet on the area where the optical pickup is placed, and ground the sheet.**

5.2.2. Human body grounding

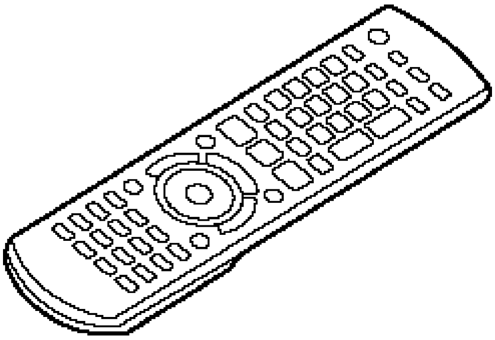
1. **Use the anti-static wrist strap to discharge the static electricity form your body.**



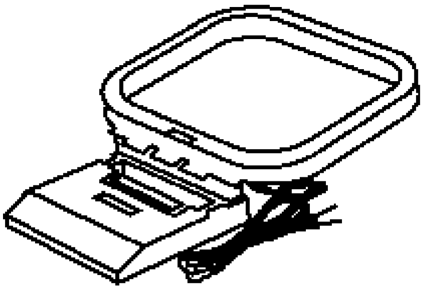


6. Accessories

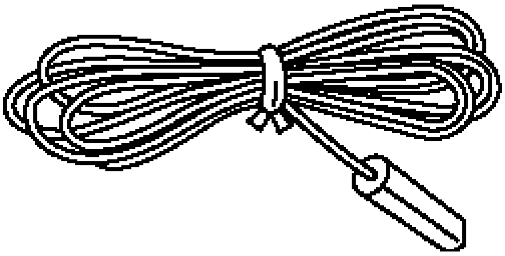
Remote control



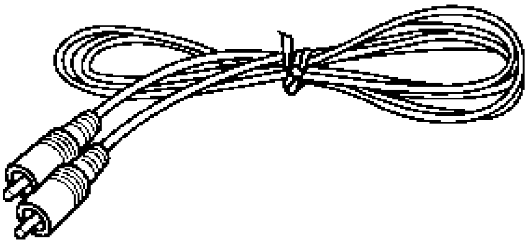
AM loop antenna



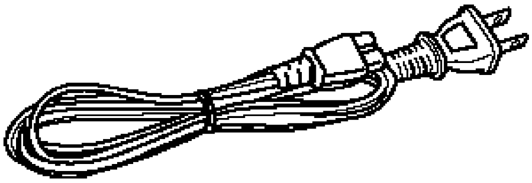
FM indoor antenna



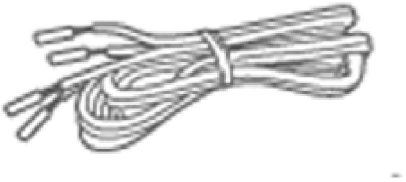
Video Cable



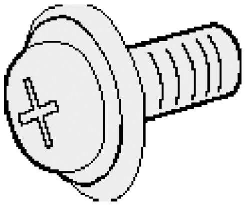
AC cord



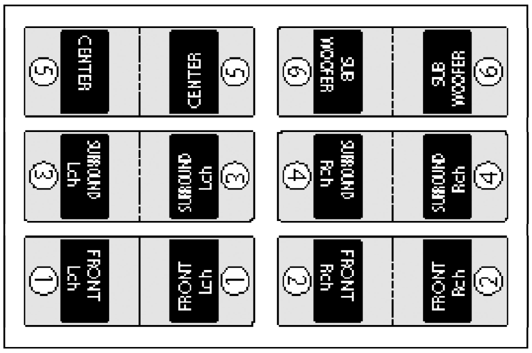
Speaker cable



Screw



Speaker label


⑤ CENTER
CENTER ⑤
⑥ SUB WOOFER
SUB WOOFER ⑥
③ SURROUND Lch
SURROUND Lch ③
④ SURROUND Rch
SURROUND Rch ④
① FRONT Lch
FRONT Lch ①
② FRONT Rch
FRONT Rch ②

7. Operation Procedures

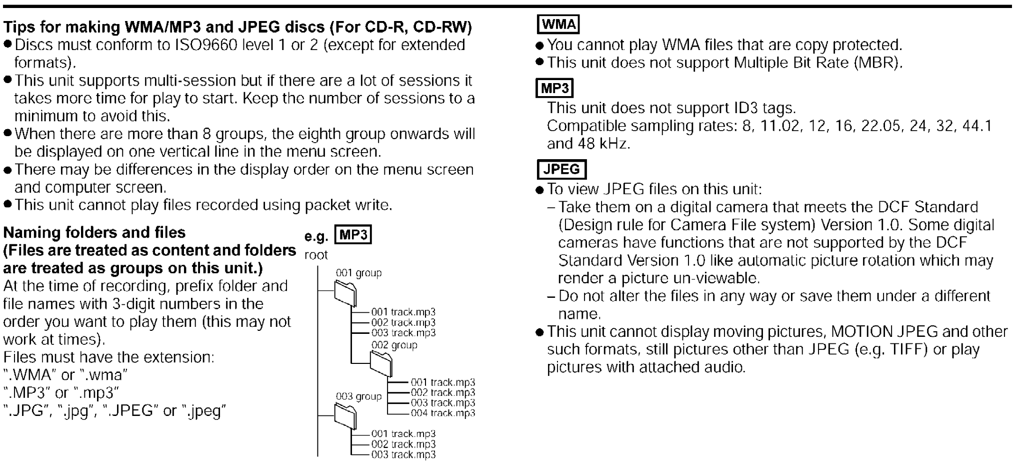
7.1. Remote Control Keys Operation

7.2. Main Unit Keys Operation

7.3. Disc Information

7.3.1. Disc Playability (Media)

7.3.2. File Extension Type Support (WMA/JPEG/MP3)



Tips for making WMA/MP3 and JPEG discs (For CD-R, CD-RW)

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit supports multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- When there are more than 8 groups, the eighth group onwards will be displayed on one vertical line in the menu screen.
- There may be differences in the display order on the menu screen and computer screen.
- This unit cannot play files recorded using packet write.

Naming folders and files
(Files are treated as content and folders are treated as groups on this unit.)
At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times).
Files must have the extension:
".WMA" or ".wma"
".MP3" or ".mp3"
".JPG", ".jpg", ".JPEG" or ".jpeg"

WMA

- You cannot play WMA files that are copy protected.
- This unit does not support Multiple Bit Rate (MBR).

MP3

This unit does not support ID3 tags.
Compatible sampling rates: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz.

JPEG

- To view JPEG files on this unit:
  - Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture un-viewable.
  - Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play pictures with attached audio.

8. New Features

8.1. Using of Receiver Unit (SH-FX60 / SH-FX80)

- This model can be equipped with the digital transmitter and receiver to enjoy surround sound wirelessly..

8.1.1. Below is tips on using the digital receiver (SE-FX60)

Making the wireless link

Refer also to the operating instructions for your home theater unit.

1 **Turn on your home theater unit.**

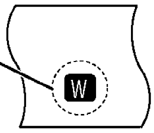
- Ensure the wireless system is plugged into the AC outlet.

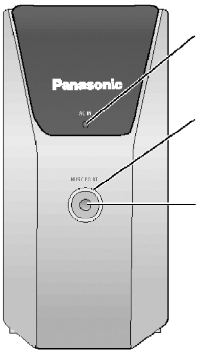
2 **Check the wireless link indicator on the home theater unit.**

" W " should light up in the display on the home theater unit.

- If " W " is flashing, refer to troubleshooting guide of the operating instructions.

e.g.





Power indicator [AC IN]

This indicator lights when the unit is pluggged into the AC outlet.

Lighting Ring

The light goes out when the unit is in standby mode.

MUSIC PORT

Allows you to connect and enjoy music from an external device (e.g. MP3 player). Refer to your home theater unit's operating instructions.

- Select the appropriate input source on your home theater unit (e.g. "REAR MUSIC P.").
- Plug type: 3.5mm (1/8") monaural
- Music is not available without wireless link.

3 **Start play on the home theater unit.**

Conserving power

The wireless system consumes a small amount of power, even when it is in standby mode (approx. 0.5W: Transmit mode, 1.2W: Receive mode). To save power when the unit is not to be used for a long time, unplug it from the household AC outlet.

8.1.2. Tips on using digital transmitter (SH-FX60T)

Connecting and positioning

Preparation

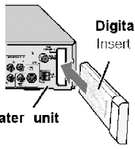
- Turn off all equipment before connection and read the appropriate operating instructions.
- Connect the AC power supply cord after all other connections are complete.

Connecting the digital transceiver

Insert the digital transceiver into the slot of your home theater unit.

e.g.

Do not insert or remove while the home theater unit is on.



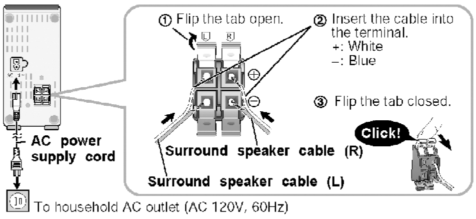
Digital transceiver
Insert fully untill you hear a click.

Rear of the home theater unit

Connecting the surround speaker cables to the wireless system

1 If the surround speaker cables have already been connected
Disconnect the surround speaker cables from your home theater unit.

2 **Connect the surround speaker cables to the wireless system.**


① Flip the tab open.

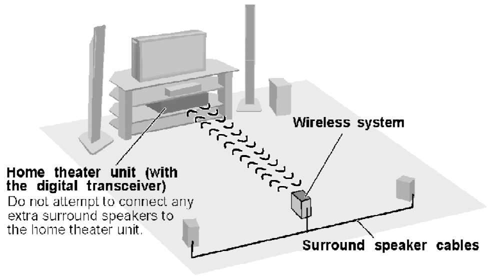
② Insert the cable into the terminal.
+: White
–: Blue

③ Flip the tab closed.

To household AC outlet (AC 120V, 60Hz)

● Wireless setup diagram

e.g.



Home theater unit (with the digital transceiver)
Do not attempt to connect any extra surround speakers to the home theater unit.

Place the wireless system within approximately 10m (33ft) from the home theater unit.

[Note]
Do not use the wireless system and digital transceiver in a metal cabinet or bookshelf.

8.1.3. Below is tips on using digital receiver (SE-FX80)

Making the wireless link

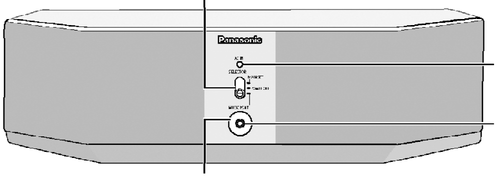
Refer also to the operating instructions for your home theater unit.

1 **Turn on your home theater unit.**
Ensure the wireless system is plugged into the AC outlet.

2 **Select "MAIN SET" or "MUSIC PORT" on the wireless sound system.**

SELECTOR

MAIN SET: Select to enjoy audio from your home theater unit.
POWER OFF: Select to turn off the wireless sound system.
MUSIC PORT: Select to enjoy audio from the MUSIC PORT on the wireless sound system.

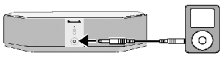


Power indicator [AC IN]
This indicator lights when the unit is pluggged into the AC outlet.

MUSIC PORT
Allows you to connect and enjoy music from an external device (e.g. MP3 player).
Set the selector on the wireless sound system to MUSIC PORT.
To avoid distorted sound, make sure that any equalizer function of your external device is turned off.
Plug type: 3.5mm (1/8 z) stereo

Lighting Ring
The light goes out when the unit is in standby mode, or turned off.

e.g.



External device (not included)
Reduce the volume before connecting.

3 **Check the wireless link indicator on the home theater unit.**
The wireless link indicator (e.g. "[W]" or LED should light up on the home theater unit.
If the indicator is flashing, refer to troubleshooting guide of the operating instructions.

4 **Start play on the home theater unit.**

Conserving power

The wireless system consumes a small amount of power, even when it is in standby mode (approx. 0.5W). To save power when the unit is not to be used for a long time, unplug it from the household AC outlet.

8.1.4. Tips on using digital transmitter (SH-FX80T)

Connecting and positioning

Preparation

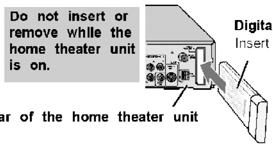
- Turn off all equipment before connection and read the appropriate operating instructions.
- Connect the AC power supply cord after all other connections are complete.

Connecting the digital transmitter

Insert the digital transmitter into the slot of your home theater unit.

e.g.

Do not insert or remove while the home theater unit is on.

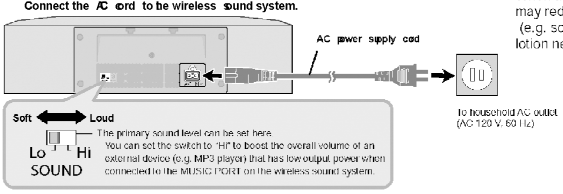

Digital transmitter
Insert fully untill you hear a click.
Rear of the home theater unit

Connecting the AC cord and setting the sound level

1 If the surround speaker cables have already been connected
Disconnect the surround speaker cables from your home theater unit.

2 **Connect the AC cord and setting the sound level.**

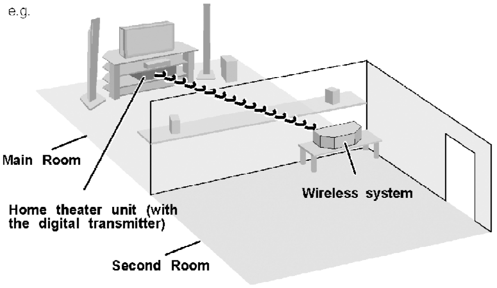
Connect the AC cord to the wireless sound system.



The primary sound level can be set here.
You can set the switch to "Hi" to boost the overall volume of an external device (e.g. MP3 player) that has low output power when connected to the MUSIC PORT on the wireless sound system.

- Wireless setup diagram

e.g.



Place the wireless sound system within approximately 15m (49ft) from the home theater unit.

[Note]

Do not use the wireless sound system and digital transmitter in a metal cabinet or bookshelf.
When using the wireless sound system in a separate room, thick or dense walls may reduce the 15m(49ft) operating rande. If you experience an intermittent link (e.g. sound cutting out), try moving the wireless sound system to a different lotion nearer to your home thearter unit.

8.2. About HDMI

8.2.1. What is HDMI?

AN INTERFACE DESIGNED FOR THE DIGITAL REVOLUTION

From broadcast equipment to TVs, the AV world is going digital. As this digital revolution unfolds, there's a growing need for an interface that digitally transmits signals between connected equipment. The solution: HDMI, or High-Definition Multimedia Interface.
HDMI transmits digital video and audio signals at speeds up to 5 Gps without compr essing them. It supports high-definition images up to 1080p and high-quality , multi-channel audio formats such as DVD-Audio. And it provides all this performance with the ease of connecting a single cable.
Also equipped with a copyright protection function, HDMI is a simple, high-performance interface that supports the growing digital age.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

FOUNDERS
HITACHI
Panasonic
PHILIPS
SILICON IMAGE
SONY
THOMSON
TOSHIBA

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

1. ADVANCED DIGITAL PICTURES

Digital transmission of video signals helps maximize the quality of HDTV images.

2. ADVANCED DIGITAL SOUND

Digital transmission of multi-channel audio signals, such as DVD-Audio signals, provides an exceptionally pure sound.

3. EASY TO USE

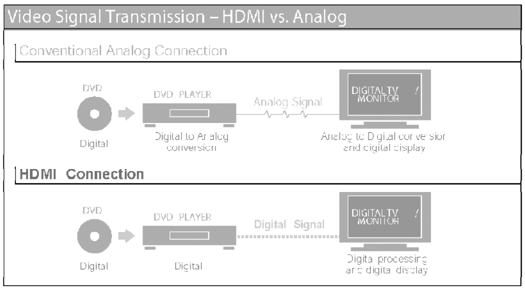
Both video and audio signals are transmitted over a single cable, so connection is easier and there's less clutter.

	Video Signal Type	Audio Signal	Copyright Pr otection	Signal Compr ession
HDMI	Digital	●	●	Without compr ession
IEEE 1394	Digital	●	●	Compression
DVI + HDCP	Digital	—	●	Without compression
DVI	Digital	—	—	Without compression

8.2.2. Advanced Digital Pictures

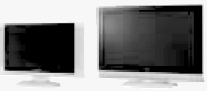
Compare HDMI connection with conventional analog connection, using the DVD player as an example. With an analog connection, the digital signal from the DVD player is converted to analog and sent to the TV, then converted back to digital and displayed. Inevitably, there is some loss of picture quality due to conversion errors and to noise and signal degradation that occurs as the signal travels through the cable.

With HDMI, on the other hand, the DVD signal is transmitted to the TV in its original digital form. There is no conversion from digital to analog and back, and thus no quality loss from conversion errors. Image quality is thus higher. Plus, because HDMI supports 480p, 1080i, and up to 1080p high-definition images with copy protection, it produces images with quality that is ideal for large-screen viewing.


Video Signal Transmission – HDMI vs. Analog
Conventional Analog Connection
DVD
Digital
DVD PLAYER
Digital to Analog conversion
Analog Signal
DIGITAL TV / MONITOR
Analog to Digital conversion and digital display
HDMI Connection
DVD
Digital
DVD PLAYER
Digital
Digital Signal
DIGITAL TV / MONITOR
Digital processing and digital display

Monitors that Maximize HDMI's Advantages

In plasma display panels, liquid crystal displays, and LCD projectors, the image processing and display systems are digital. When a set-top box or DVD player is connected to one of these monitors via HDMI, the signal processing is digital all the way from transmission to display, so the images are beautiful

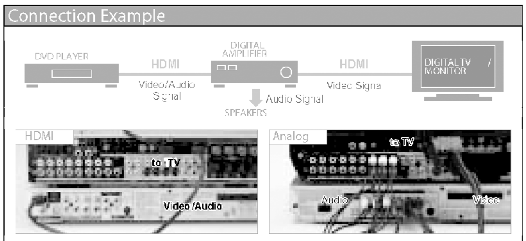


8.2.3. Advanced Digital Sound

The super-high-quality linear PCM sound provided by DVD-Audio is not given its full potential when the digital signal is transmitted through an analog cable.

With a conventional analog connection, the digital signal carrying DVD-Audio's detailed audio data is converted to analog before being sent to the amplifier and output. Sound quality is diminished due to noise and signal degradation.

HDMI, on the other hand, transmits the signal in its original digital form, so the sound is extremely pure. HDMI also supports up to eight channels of multi-channel sound. Plus, it connects the player and amplifier with a single cable, rather than the multiple cables needed in conventional connection.


Connection Example
DVD PLAYER
HDMI
Video/Audio Signal
DIGITAL AMPLIFIER
Audio Signal
SPEAKERS
HDMI
Video Signal
DIGITAL TV / MONITOR
HDMI
to TV
Video /Audio
Analog
to TV
Audio
Video

Player and amplifier are connected by a single cable. Connection is quick and easy, and there's no clutter.

It generally takes more than six cables to connect player and amplifier. Connection is more complicated, and there are more cables to get in the way.

Linked Control

Here's an example of how linked control will work among HDMI-compatible units in the future. When you insert a disc into the DVD player and press Play, the amplifier and TV automatically turn on too. You get the advantage of one-touch operating ease as well as superior picture and sound quality.

8.2.4. Easy to Use

HDMI transmits both video and audio signals over a single cable, so connection is quick and easy and the area around the TV remains uncluttered. Also, when each of the connected units is HDMI-compatible, control signals can be exchanged among them. This means that, in the future, it will be possible to operate several units from a single remote control, or to operate several units via linked control.

8.2.5. HDMI Compatible Products

Monitors
VIErA
High-Definition Plasma TV
TH-50PX25U/P, TH-42PX25U/P
TH-37PX25U/P
High-Definition LCD TV
TC-32LX20, TC-26LX20
TH-50PX25U/P
TC-32LX20
LCD Pojector
TH-AE700
DVD Players
DVD-Audio/Video Player
DVD-S97
Receivers
Home Theater Receiver
SA-XR70

9. Self-Diagnosis and special mode setting

9.1. Service Mode Summary Table

The service modes can be activated by pressing various button combination on the player and remote control unit.

Below is the summary of major checking:

Player buttons	Remote control unit buttons	Application	N
STOP	0	Error code display	(Refer to section, Self Diag Functio Code”).
	5	Jitter checking	(Refer to section Optical adjustm
	6	Region display and mode	(Refer to section Service Table 1 f informat
	7	Micro-processor firmware version check	
	FUNCTIONS	DVD laser drive current check	(Refer to “9.2.1. C -up Self- ”).
	3	CD laser drive current check	
	PAUSE	Writing of laser drive current value after replacement of optical pickup (Do use this function only when optical pickup is replaced.)	
	≧10	Initialization of the player (factory setting is restored.) Used after replacement of micro-computer, FLASH ROM IC, EEPROM and HDMI module.	
	8	DVD HDMI Module firmware version check	
	ENTER	DVD Module Reset	

9.2. Service Mode Table 1

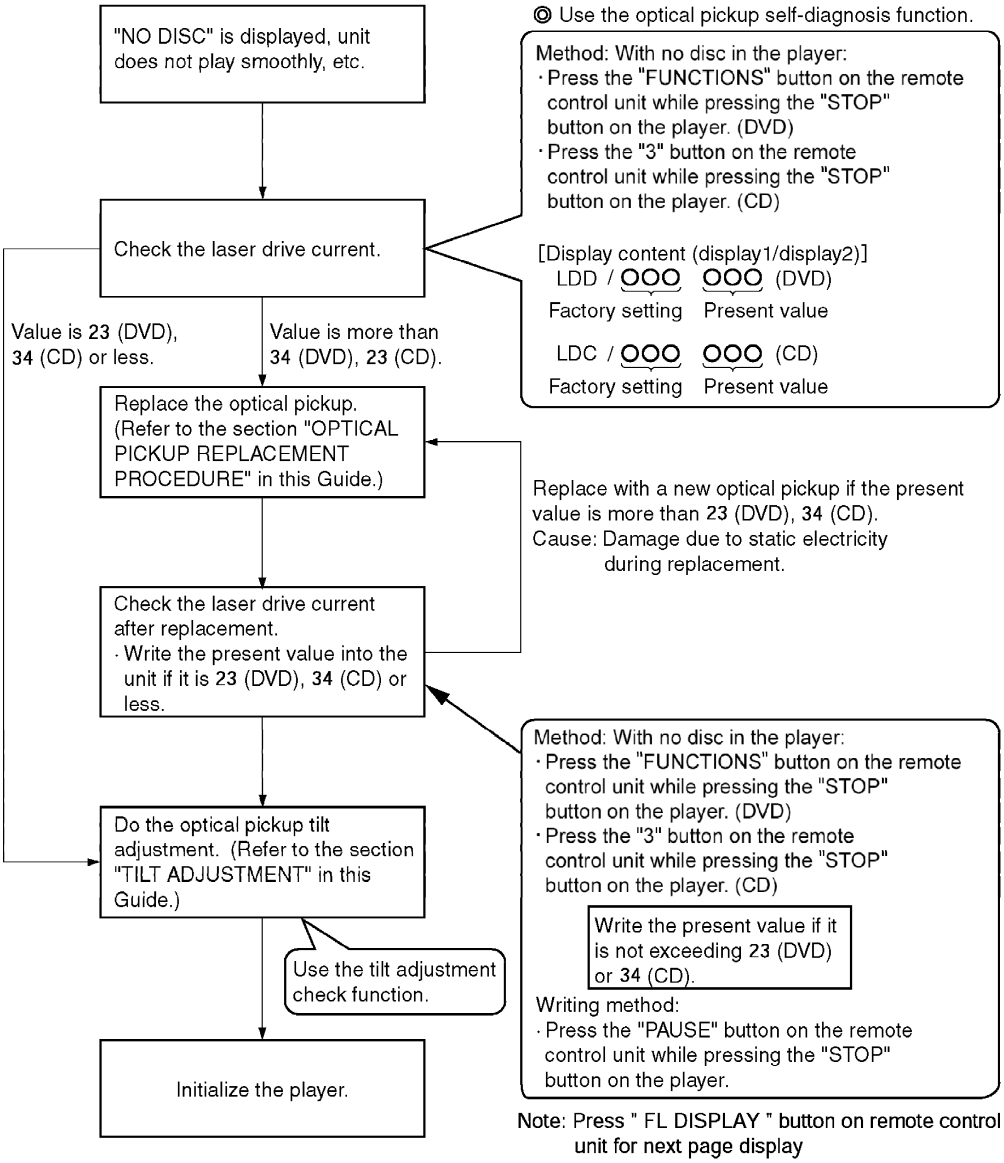
By pressing various button combinations on the player and remote control unit can activate the various service modes for checking.

Special Note:
Due to the limitations of the no. characters that can be shown on FL Display, the “FL Display” button on the remote control unit is used to show the following page. (Display 1 / Display 2).

9.2.1. Optical Pick-up Self-Diagnosis

The optical pickup self-diagnosis function and tilt adjustment check function have been included in this unit. When repairing, use the following procedure for effective self-diagnosis and tilt adjustment. Be sure to use the self-diagnosis function before replacing the optical pickup when "NO DISC" is displayed. As a guideline, you should replace the optical pickup when the value of the laser drive current is more than 55.

Note:
Press the power button to turn on the power, and check the value within three minutes before the unit warms up. (Otherwise, the result will be incorrect.)



"NO DISC" is displayed, unit does not play smoothly, etc.

Check the laser drive current.

Value is 23 (DVD), 34 (CD) or less.

Value is more than 34 (DVD), 23 (CD).

Replace the optical pickup. (Refer to the section "OPTICAL PICKUP REPLACEMENT PROCEDURE" in this Guide.)

Check the laser drive current after replacement.
· Write the present value into the unit if it is 23 (DVD), 34 (CD) or less.

Do the optical pickup tilt adjustment. (Refer to the section "TILT ADJUSTMENT" in this Guide.)

Use the tilt adjustment check function.

Initialize the player.

◎ Use the optical pickup self-diagnosis function.

Method: With no disc in the player:
- Press the "FUNCTIONS" button on the remote control unit while pressing the "STOP" button on the player. (DVD)
- Press the "3" button on the remote control unit while pressing the "STOP" button on the player. (CD)

[Display content (display1/display2)]

$\text{LDD / }\underbrace{\text{OOO}}_{\text{Factory setting}}\ \underbrace{\text{OOO}}_{\text{Present value}}\text{ (DVD)}$

$\text{LDC / }\underbrace{\text{OOO}}_{\text{Factory setting}}\ \underbrace{\text{OOO}}_{\text{Present value}}\text{ (CD)}$

Replace with a new optical pickup if the present value is more than 23 (DVD), 34 (CD).
Cause: Damage due to static electricity during replacement.

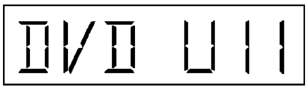
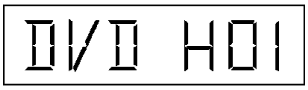
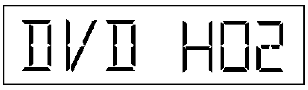
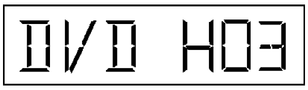
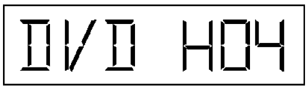
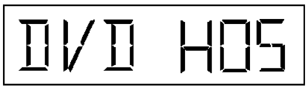
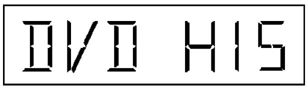
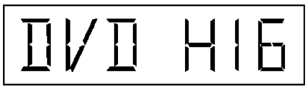
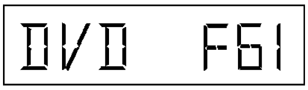
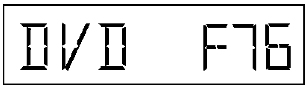
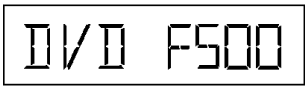
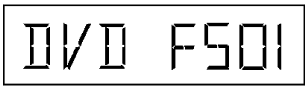
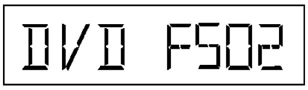
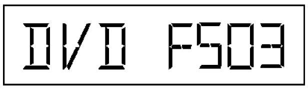
Method: With no disc in the player:
- Press the "FUNCTIONS" button on the remote control unit while pressing the "STOP" button on the player. (DVD)
- Press the "3" button on the remote control unit while pressing the "STOP" button on the player. (CD)

Write the present value if it is not exceeding 23 (DVD) or 34 (CD).

Writing method:
- Press the "PAUSE" button on the remote control unit while pressing the "STOP" button on the player.

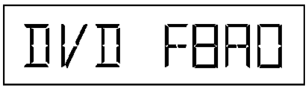
Note: Press " FL DISPLAY " button on remote control unit for next page display

9.3. DVD Self Diagnostic Function-Error Code

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remark
U11	**Focus servo error**	**Focus coil NG (OPU unit abnormal)**		**Press [■ ST on main unit next error.**
H01	**Tray loading error / abnormality**	**The tray is not able to open**		**Press [■ ST on main unit next error**
H02	**Spindle servo error, DSC disc motor error**	**(Spindle servo, DSC (IC8251) Spindle motor, CLV servo error)**		**Press [■ ST on main unit next error**
H03	**Traverse motor error**	**(Traverse motor, IC8251)**		**Press [■ ST on main unit next error**
H04	**Tracking servo error**	**Tracking coil NG (OPU unit abmormal)**		**Press [■ ST on main unit next error**
H05	**Seek timeout error**	**Timeout of unit when seeking time is reached**		**Press [■ ST on main unit next error**
H15	**Disc tray open detection switch (S9001) failure**	**The disc tray cannot be opened: it closes spontaneously**		**Press [■ ST on main unit next error**
H16	**Disc tray close detection switch (S9001) failure**	**The disc tray cannot be closed: it opens spontaneously**		**Press [■ ST on main unit next error**
F61	**Power digital amp IC op & DC output voltage abnormal.**	**Upon power-on PCONT= High, DCDET=Low**		**Press [■ ST on main unit next error**
F76	**Power digital amp IC op & DC output voltage abnormal.**	**Speaker Jack shorted or amp circuit**		**Press [■ ST on main unit next error**
F500	**DSC error**	**DSC (IC8251) stops in the occurrence of servo error (startup, focus error, etc.)**		**Press [■ ST on main unit next error**
F501	**DSC not Ready error**	**DSC-system computer communication error (Communication failure caused by idling of DSC)**		**Press [■ ST on main unit next error**
F502	**DSC Time out error**	**Similar as F500**		**Press [■ ST on main unit next error**
F503	**DSC communication Failure**	**Communication error (result error occurred although communication command was sent)**		**Press [■ ST on main unit next error**

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remark
F504	**Abnormal adjusting DSC data slice offset**		DVD F504	**Press [■ ST on main unit next error**
F505	**DSC Attention error**	**Similar as F500**	DVD F505	**Press [■ ST on main unit next error**
F506	**Invalid media**	**Disc is flipped over, TOC unreadable, incompatible disc media**	DVD F506	**Press [■ ST on main unit next error**
F600	**Access failure to management information caused by demodulation error**	**Operation stopped because navigation data is not accessible caused by the demodulation defect**	DVD F600	**Press [■ ST on main unit next error**
F601	**Indeterminate sector ID requested**	**Operation stopped caused by the request to access abnormal ID data**	DVD F601	**Press [■ ST on main unit next error**
F602	**Access failure to LEAD-IN caused by demodulation error**	**LEAD IN data unreadable**	DVD F602	**Press [■ ST on main unit next error**
F603	**Access failure to KEYDET caused by demodulation error**	**Access failure to CSS data of disc**	DVD F603	**Press [■ ST on main unit next error**
F610	**ODC abnormality**	**No permission for command execution**	DVD F610	**Press [■ ST on main unit next error**
F611	**No CRC OK for a specific time (CD)**	**Access failure to seek address in CD series**	DVD F611	**Press [■ ST on main unit next error**
F612	**No CRC OK for a specific time (DVD)**	**Access failure to ID data in DVD series**	DVD F612	**Press [■ ST on main unit next error**
F620	**Laser safeguard: high temperature condition**	**High temperature of the laser guide unit (OPU unit)**	DVD F620	**Press [■ ST on main unit next error**
F621	**Laser safeguard: circuit failure condition**	**Circuitry failure of the laser guide unit (OPU unit)**	DVD F621	**Press [■ ST on main unit next error**
F103	**Illegal highlight Position**	**Big possibility of disc specification violation during highlight display**	DVD F103	**Press [■ ST on main unit next error**
F4FF	**Force initialize failure (time out)**	**Timeout when force initialization fails**	DVD F4FF	**Press [■ ST on main unit next error**

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remark
F700	**MBX overflow**	**When replying message to disc manager**	DVD F700	**Press [■ ST on main unit next error**
F701	**Message command does not end**	**Next message is sent before replying to disc manager**	DVD F701	**Press [■ ST on main unit next error**
F702	**Message command changes**	**Message is changed before it is sent as a reply to disc manager**	DVD F702	**Press [■ ST on main unit next error**
F880	**Task number is not appropriate**	**Message coming from a non-existing task**	DVD F880	**Press [■ ST on main unit next error**
F890	**Sending message when message is being sent to AV task**	**Sending message to AV task**	DVD F890	**Press [■ ST on main unit next error**
F891	**Message couldn't be sent to AV task**	**Begin sending message to AV task**	DVD F891	**Press [■ ST on main unit next error**
F893	**FLASH ROM IC problem**	**FLASH ROM IC installed is not operating properly (Neccessary replacement of FLASH ROM IC) or firmware problem**	DVD F893	**Press [■ ST on main unit next error**
F894	**EEPROM abnormality**	**EEPROM IC installed is not operating in normal condition (EEPROM contains neccessary data)**	DVD F894	**Press [■ ST on main unit next error**
F895	**Region setting abnormality**	**Firm version agreement check for factory preset setting failure prevention. Check region setting & re-initialize**	DVD F895	**Press [■ ST on main unit next error**
F896	**No existence model**	**Firm version agreement check for factory preset setting failure prevention**	DVD F896	**Press [■ ST on main unit next error**
F897	**Initialize is not completed**	**Initialize completion check for factory preset setting failure prevention**	DVD F897	**Press [■ ST on main unit next error**
F898	**Disagreement of hardware and software**	**Unsuitable combination of AV DECORDER, SDRAM and FLASH ROM (firmware)**	DVD F898	**Press [■ ST on main unit next error**

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remark
F8A0	Message command is not appropriate	Begin sending message to AV task		Press [■ ST on main unit t next error

Note:

An error code will be canceled if a power supply is turned OFF.

***1: CPPM is the copy guard function beforehand written in the disk for protection of copyrights.**

***2: CEC is the consumer electronic control used for high-level user control of HDMI-connected devices.**

***3: HDCP is the specification developed to control digital audio & video contents transmission for DVI or HDMI connections.**

9.4. Sales Demonstration Lock Function

This function prevents discs from being lost when the unit is used for sales demonstrations by disabling the disc eject function. "LOCKED" is displayed on the unit, and ordinary operation is disabled.

9.4.1. Setting

- Prohibiting removal of disc

1. **Select the DVD/CD function.**
2. **Press and hold down the ■ button and the power button on the player for at least three seconds. (The message, "___LOCKED_" appears when the function is activated.)**

Note:

OPEN/CLOSE ⏏ , DISC CHECK and DISC CHANGE buttons are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

- Prohibiting operation of selector and disk

1. **Select the DVD/CD function.**
2. **Press and hold down the ▶ button and the power button on the player for at least three seconds. (The message, "___LOCKED_" appears when the function is activated.)**

Note:

The following buttons are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

Player	**⏏, ■, ⏸, SELECTOR, ⏭, ⏮, VOLUME KNOB, DISC CHEC DISC CHANGE, DISC1-DISC5**
Remote controller unit	**SLEEP, REPEAT, 0~9, ≧10, RETURN, TOP MENU, ■, ⏸, ⏮, ⏭, ◀◀, ▶▶, POSITION MEMORY, TUNER/BAND, D.MIX, CH SELECT/ TEST, SET UP/ MUTING, DISPLAY, GROUP, TV, VCR/ AUX, QUICK REPLAY, SUBTITLE, FL DISPLAY, CH & VOLUME**

9.4.2. Cancellation

The lock can be cancelled by the same procedure as used in setting. ("UNLOCK" is displayed on cancellation. Disconnecting the power cable from power outlet does not cancel the lock.)

9.5. Service Precautions

9.5.1. Recovery after the DVD player is repaired

- **When the IC or HDMI module P.C.B. is replaced, carry out the recovery processing to optimize the drive.**
  Playback the recovery disk to process the recovery automatically.
- **Recovery disc (Product number: RFKZD03R005)**
- **Performing recovery process**
  1. **Load the recovery disc RFKZD03R005 on to the player and run it.**
  2. **Recovery is performed automatically. When it is finished, a message appears on the screen.**
  3. **Remove the recovery disc.**
  4. **Turn off the power.**
  5. **Initialize the player.**

9.5.2. Firmware version-up of the DVD player

- **The firmware of the DVD player may be renewed to improve the quality including operability and playability to the substandard discs.processing to optimize the drive.**
  The recovery disc has also firmware version-up.
- **After version-up, recovery processing is executed automatically.**
- **Part number of the recovery disc for version-up will be noticed when it is supplied.**
- **Updating firmware**
  1. **Load the recovery disc on to the player and run it.**

2. Firmware version of the player is automatically checked. Appropriate message appears whenever necessary.
3. Using remote controller's cursor key, select whether version updating is to be done or not. (Selection of Yes/No)
4. a. If Yes is selected, version updating is performed.
   b. If No is selected, only recovery is performed.
5. a. When updating is finished, remove the disc according to the message appearing on the screen.
   b. Remove the disc according to the message appearing on the screen.
6. Turn off the power.

Note:
If the AC power supply is shut out during version-up due to a power failure, the version-up is improperly carried out.
In such a case, replace the FLASH ROM IC and carry out the version-up again.

9.5.3. DVD Module Reset

- **When after replacing Flash Rom IC or the DVD Module P.C.B., FL displays error code “ DVD F897”. This means the unit is not initialized properly and the following process needs to be carry out.**
- **Procedures:**

1. Press ≧10 on remote control while pressing “STOP” button on main unit.
2. FL display show “INIT”
3. While still pressing “STOP” button on main unit, press “ENTER” on remote control.
4. FL will display “DVD RESET” before FL display will change to TOC reading again.
5. Power off unit. Unplug the AC cord.
6. Power on the unit. It should be no problem. If problem persist check on the DVD module P.C.B. or FLASH ROM IC.

10. Assembling and Disassembling

“ATTENTION SERVICER”

Be careful when disassembling and servicing.
Some chassis components may have sharp edges.
Special Note:

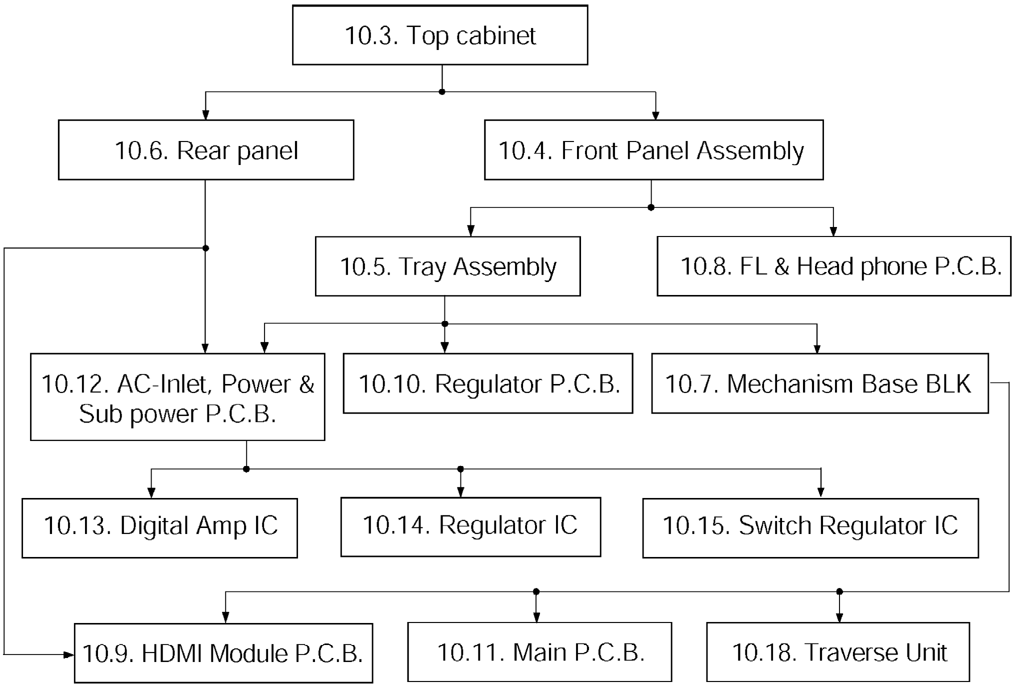
1. **This section describes the disassembly procedures for all the major printed circuit boards and main components.**
2. **Before the disassembly process was carried out, do take special note that all safety precautions are to be carried out.**
   (Ensure that no AC power supply is connected during disassembling.)
3. **For assembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
4. **The Switch Regulator IC may have high temperature after prolonged use.**
   Use caution when removing the top cabinet and avoid touching heat sinks located in the unit.
5. **Select items from the following index when checks or replacement are required.**

- Disassembling the Top Cabinet
- Disassembling the Front Panel
- Disassembling the Tray Assembly
- Disassembling the Rear Panel
- Disassembling the Mechanism Base Block
- Disassembling the FL & Head phone P.C.B.
- Disassembling the HDMI Module P.C.B.
- Disassembling the Regulator P.C.B.
- Disassembling the Main P.C.B.
- Disassembling the AC Inlet, Power & Sub power P.C.B.
- Disassembly of Digital Amp IC
- Disassembly of Regulator IC
- Disassembly of Switch Regulator IC
- Disassembly of the Tray Base Guide (L) and Tray Base Guide (R)
- Disassembly of the Rotary Tray
- Disassembly of the Open Lock Gear
- Disassembly of the Close Lock Gear

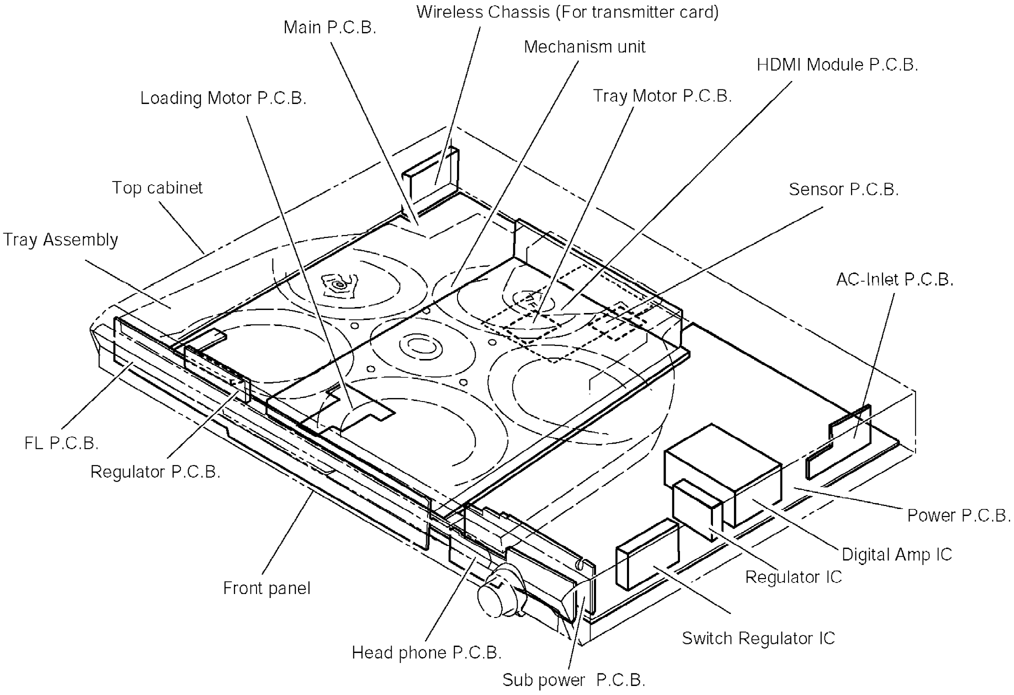
- **Disassembly of the Tray Motor P.C.B.and Sensor P.C.B.**
- **Disassembly of the Traverse Unit**
- **Disassembly of the Pulley Gear**
- **Disassembly of the Loading Motor P.C.B.**
- **Disassembly of the Drive Gear (A) & (B)**
- **Disassembly of Fixed Plate, Magnet and Clamper**
- **Disassembly of Cam Gear & Support Piece**
- **Disassembly of the Slide Plate (L) & (R) and Change Lever**
- **Assembly of Tray Assembly**

CAUTION NOTE:
Please use original screw and at correct locations.

10.1. Disassembly Flow Chart


10.3. Top cabinet
10.6. Rear panel
10.4. Front Panel Assembly
10.5. Tray Assembly
10.8. FL & Head phone P.C.B.
10.12. AC-Inlet, Power & Sub power P.C.B.
10.10. Regulator P.C.B.
10.7. Mechanism Base BLK
10.13. Digital Amp IC
10.14. Regulator IC
10.15. Switch Regulator IC
10.9. HDMI Module P.C.B.
10.11. Main P.C.B.
10.18. Traverse Unit

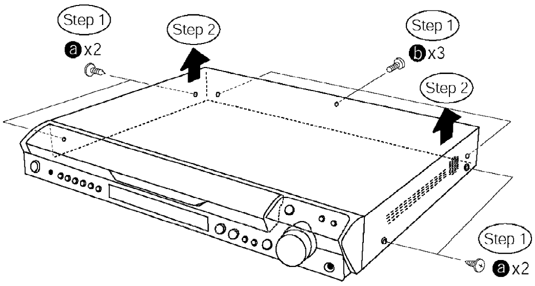
10.2. Main Components and P.C.B. Locations


Main P.C.B.
Wireless Chassis (For transmitter card)
Mechanism unit
HDMI Module P.C.B.
Loading Motor P.C.B.
Tray Motor P.C.B.
Top cabinet
Sensor P.C.B.
Tray Assembly
AC-Inlet P.C.B.
FL P.C.B.
Regulator P.C.B.
Power P.C.B.
Digital Amp IC
Regulator IC
Front panel
Switch Regulator IC
Head phone P.C.B.
Sub power P.C.B.

10.3. Disassembling the Top Cabinet

Step 1 Remove 7 screws.

Step 2 Remove the top cabinet in the direction of arrow.


Step 1
a x2
Step 2
Step 1
b x3
Step 2
Step 1
a x2

10.4. Disassembling the Front Panel Assembly

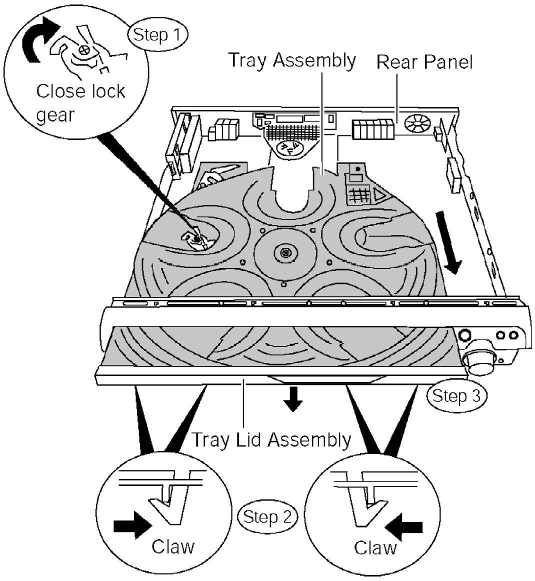
- Follow (Step 1) to (Step 2) of Item 10.3.

- Disassembly of tray lid assembly. [(Step 1) to (Step 3) of the following]

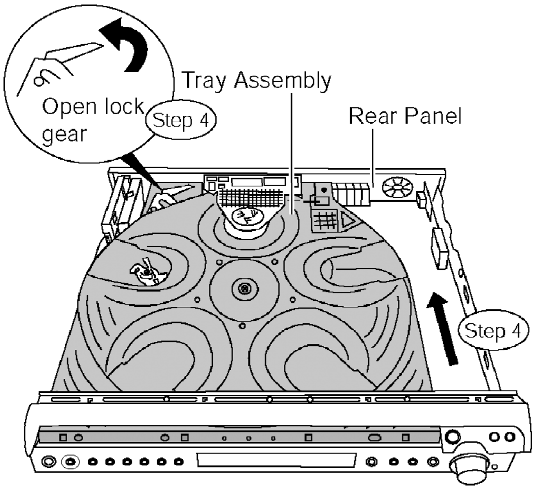
Step 1 Keep the close lock gear pressed in clockwise direction, then move the tray assembly out halfway in the direction of the arrow.

Step 2 Release the claws at the bottom of the tray lid assembly.

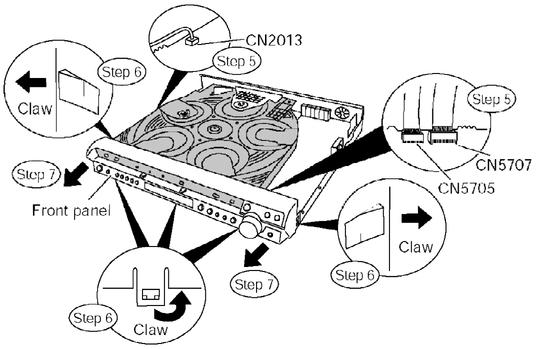
Step 3 Remove the tray lid assembly in the direction of arrow.


Step 1
Close lock gear
Tray Assembly
Rear Panel
Step 3
Tray Lid Assembly
Claw
Step 2
Claw

Step 4 Keep the open lock gear pressed in anti clockwise direction and push back the tray assembly.


Open lock gear
Step 4
Tray Assembly
Rear Panel
Step 4

Step 5 Detach the FFC cables from connectors (CN5705, CN5707 & CN2013).
Step 6 Release the claws of the front panel in the directions.
Step 7 Detach the front panel assembly in the direction of arrow.


CN2013
Step 5
Claw
Step 6
Step 5
CN5707
CN5705
Step 7
Front panel
Claw
Step 6
Step 7
Step 6
Claw

10.5. Disassembling the Tray Assembly

- Follow (Step1) to (Step7) of Item 10.4.

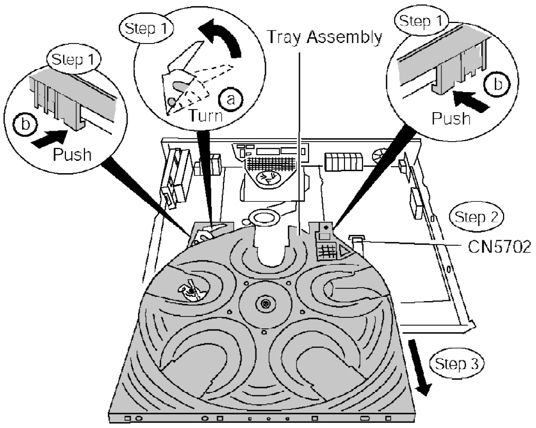
Step 1 Press and hold the open lock gear, then push and release the claws in the direction of

arrow.

Step 2 Detach the FFC cable from connector (CN5702).

Step 3 Remove the tray assembly in the direction of arrow.

Caution: Avoid using excessive strong force when removing the tray assembly.


Step 1
Step 1
Step 1
Tray Assembly
a
Turn
b
Push
b
Push
Step 2
CN5702
Step 3

10.6. Disassembling the Rear Panel

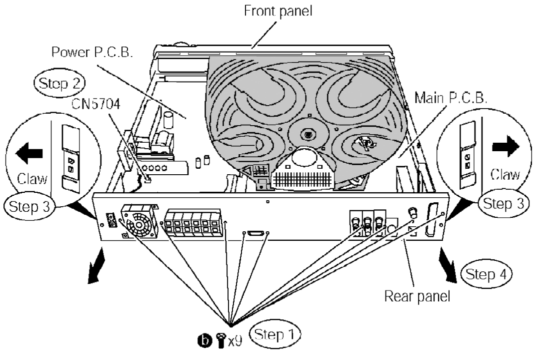
- Follow (Step 1) to (Step 2) of Item 10.3.

Step 1 Remove 9 screws.

Step 2 Detach the FFC cable from connector (CN5704).

Step 3 Release the claws of the rear panel in the directions.

Step 4 Remove the rear panel in the direction of arrow.


Front panel
Power P.C.B.
Step 2
CN5704
Main P.C.B.
Claw
Step 3
Claw
Step 3
Step 4
Rear panel
b x9
Step 1

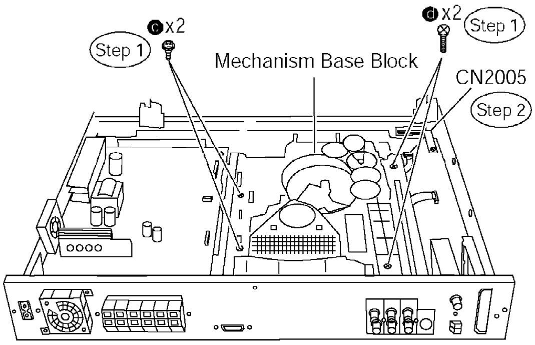
10.7. Disassembling the Mechanism Base Assembly

- Follow (Step 1) to (Step 3) of Item 10.5.

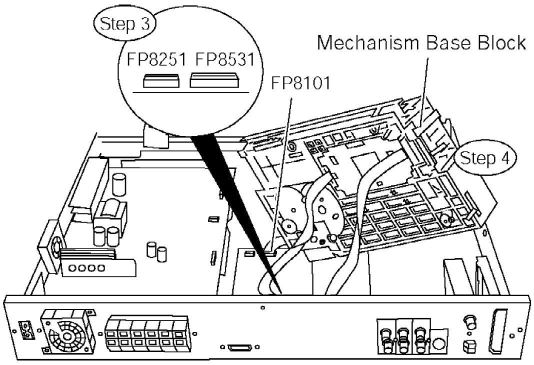
Step 1 Remove 2 screws on each side of the mechanism base block.

Caution: Take note of the screw type used. During assembling, use the correct screw type and at the correct location.

Step 2 Detach FFC cable at connector (CN2005).


c x2
Step 1
Mechanism Base Block
d x2
Step 1
CN2005
Step 2

Step 3 Detach FFC cables at connectors (FP8251 & FP8531).


Step 3
FP8251 FP8531
Mechanism Base Block
FP8101
Step 4

Step 4 Remove the mechanism base block.

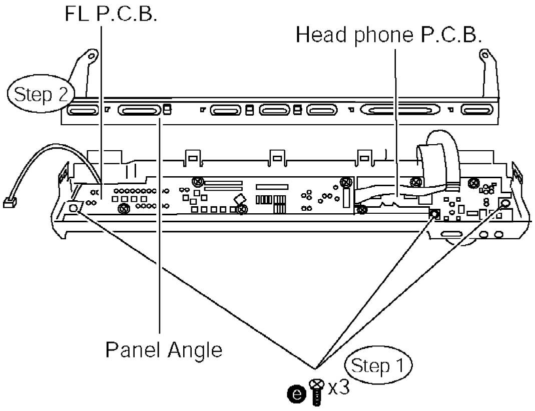
10.8. Disassembling the FL & Head phone P.C.B.

- Follow (Step 1) to (Step 7) of Item 10.4.

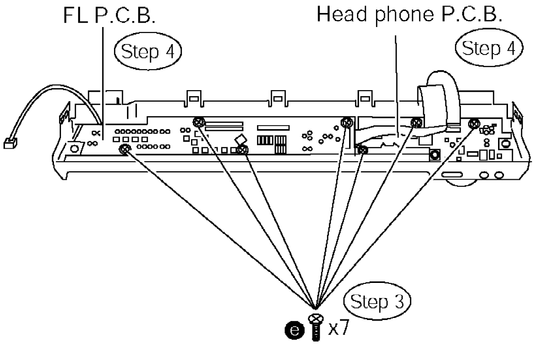
- Disassembly of the panel angle. [(Step 1) to (Step 2) of the following]

Step 1 Remove 3 screws.

Step 2 Remove the panel angle.


FL P.C.B.
Head phone P.C.B.
Step 2
Panel Angle
Step 1
e x3

Step 3 Remove 7 screws.


FL P.C.B.
Step 4
Head phone P.C.B.
Step 4
Step 3
e
x7

Step 4 Remove the FL & Head phone P.C.B.

10.9. Disassembling the HDMI Module P.C.B.

- Follow (Step 1) to (Step 3) of Item 10.5

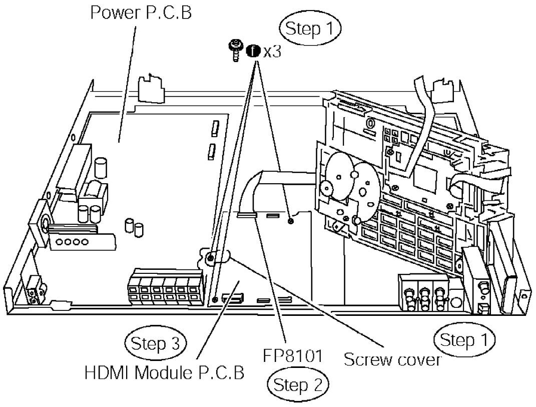
- Follow (Step 1) to (Step 4) of Item 10.6

- Follow (Step 1) to (Step 4) of Item 10.7

Step 1 Remove 3 screws and screw cover.

Step 2 Detach the FFC cable from connector (FP8101).

Step 3 Remove HDMI module P.C.B.


Power P.C.B
Step 1
f
x3
Step 3
HDMI Module P.C.B
FP8101
Step 2
Screw cover
Step 1

10.10. Disassembling the Regulator P.C.B.

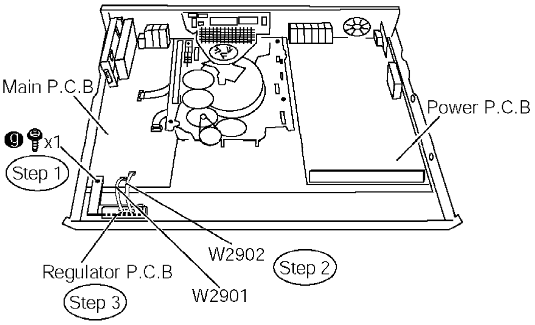
- Follow (Step 1) to (Step 3) of Item 10.5

Step 1 Remove 1 screw.

Step 2 Detach the 2 flat cables from connectors (W2901 & W2902) on Main P.C.B.

Step 3 Remove the Regulator P.C.B.

Caution: During disassembling, please ensure that the flat cables are disconnected from exact connectors indicated.


Main P.C.B
g
x1
Step 1
Power P.C.B
Regulator P.C.B
Step 3
W2902
Step 2
W2901

10.11. Disassembling the Main P.C.B.

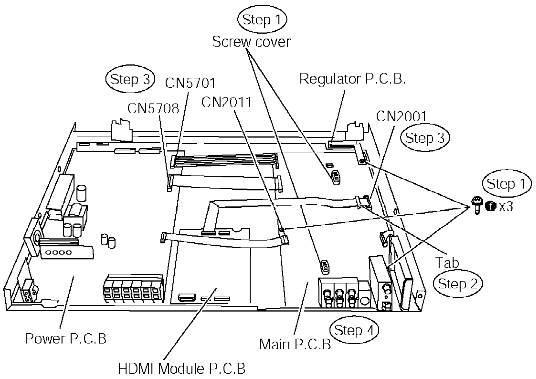
- **Follow (Step 1) to (Step 4) of Item 10.6.**
- **Follow (Step 1) to (Step 4) of Item 10.7.**
- **Follow (Step 1) to (Step 3) of Item 10.10.**

Step 1 Remove 2 screws and 2 screw covers.

Step 2 Remove the tab.

Step 3 Detach the FFC cables from connectors (CN2011, CN5701, CN5708, CN2001).

Step 4 Remove the Main P.C.B.


Step 1
Screw cover
Step 3
CN5701
CN5708
CN2011
Regulator P.C.B.
CN2001
Step 3
Step 1
x3
Tab
Step 2
Power P.C.B
Main P.C.B
Step 4
HDMI Module P.C.B

10.12. Disassembling the AC-Inlet, Power & Sub Power P.C.B

- **Follow (Step 1) to (Step 4) of Item 10.6.**
- **Follow (Step 1) to (Step 4) of Item 10.7.**

Step 1 Remove 2 screws. (side fan unit)

Step 2 Remove shield plate.

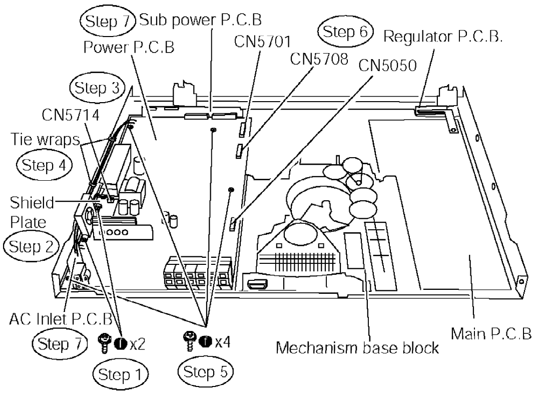
Step 3 Detach fan unit. (CN5714)

Step 4 Remove the 2 tie wraps (used for black/red wires between AC Inlet P.C.B. and Power P.C.B.) to the side of bottom chassis.

Step 5 Remove 4 screws.

Step 6 Detach the FFC cables from connectors (CN5701, CN5708, CN5050).

Step 7 Remove the AC Inlet, Power & Sub Power P.C.B.

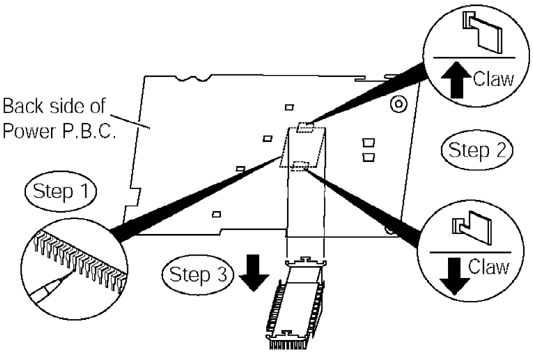

Step 7
Sub power P.C.B
Power P.C.B
CN5701
Step 6
Regulator P.C.B.
CN5708
CN5050
Step 3
CN5714
Tie wraps
Step 4
Shield Plate
Step 2
AC Inlet P.C.B
Step 7
x2
x4
Step 1
Step 5
Mechanism base block
Main P.C.B

Caution: Remember to use tie wraps to tie the black/red wires to the side of bottom chassis after repair or troubleshooting.

10.13. Disassembly of Digital Amp IC

- **Follow (Step 1) to (Step 7) of Item 10.12.**

Step 1 Desolder all IC5001 pins.
Step 2 Release the claws.
Step 3 Remove the D. Amp IC (IC5001).

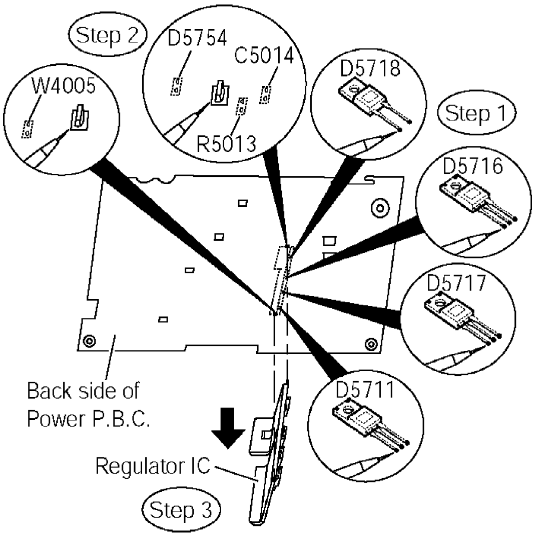

Back side of
Power P.B.C.
Claw
Step 2
Step 1
Step 3
Claw

Note: Refer to the diagrams of Power P.C.B. (Section 19.3) for location of the parts.

10.14. Disassembly of Regulator IC

- Follow (Step 1) to (Step 7) of Item 10.12.

Step 1 Desolder all pins of D5711, D5716, D5717, D5718.
Step 2 Desolder 2 pins of Regulator IC.
Step 3 Remove the Regulator IC.

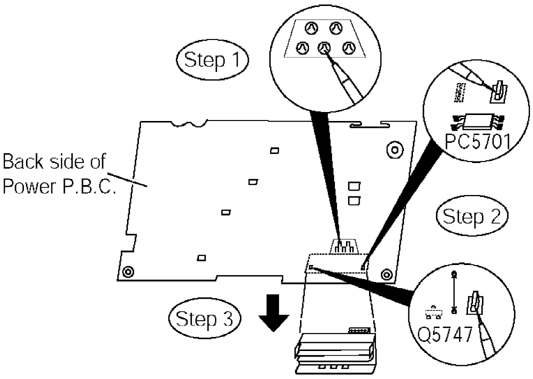

Step 2
D5754
C5014
W4005
R5013
D5718
Step 1
D5716
D5717
Back side of
Power P.B.C.
D5711
Regulator IC
Step 3

Note: Refer to the diagrams of Power P.C.B. (Section 19.3) for location of the parts.

10.15. Disassembly of Switch Regulator IC (IC5701)

- Follow (Step 1) to (Step 7) of Item 10.12.

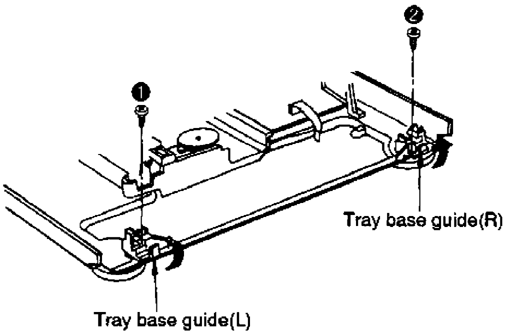
Step 1 Desolder all pins of IC5701.
Step 2 Desolder 2 pins of Switch Regulator IC.
Step 3 Remove the Switch Regulator IC.


Step 1
Back side of Power P.B.C.
PC5701
Step 2
Step 3
Q5747

Note: Refer to the diagrams of Power P.C.B. (Section 19.3) for location of the parts.
Caution: Be careful when removing the Switch Regulator IC which has high temperature after prolonged use.

10.16. Disassembly of the Tray Base Guide (L) and Tray Base Guide (R)

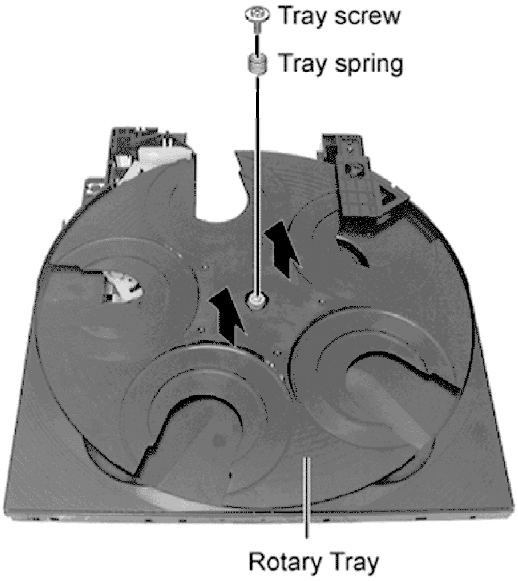
- Follow (Step 1) to (Step 3) of Item 10.5.


❶
❷
Tray base guide(R)
Tray base guide(L)

Step 1 Remove the 2 screws.
Step 2 Remove the tray base guide (L) and tray guide (R) in the direction of arrow.

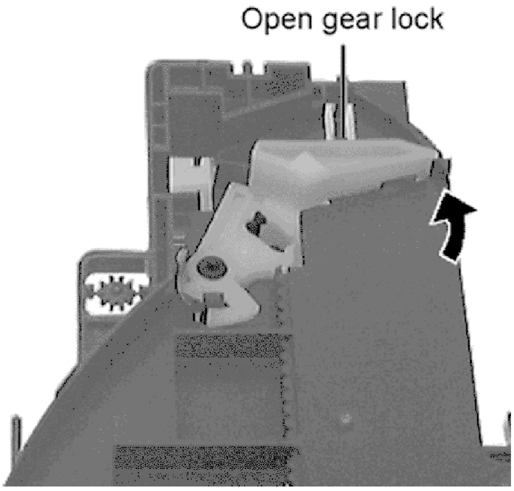
10.17. Disassembly of the Rotary Tray

- Follow (Step 1) to (Step 3) of Item 10.5.

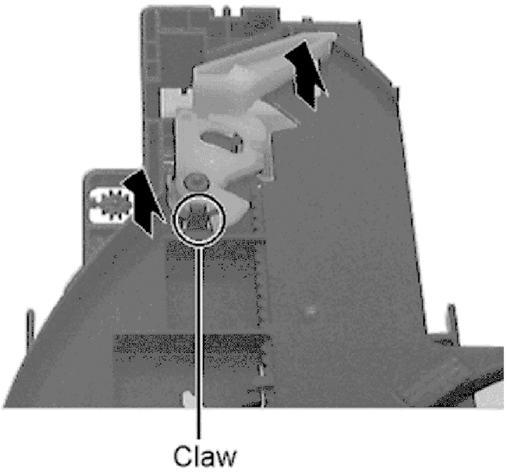

Tray screw
Tray spring
Rotary Tray

Step 1 Remove tray screw and tray spring.
Step 2 Remove rotary tray.

10.17.1. Disassembly of the Open Lock Gear



Step 1 Rotate open lock gear in the direction of arrow. (Anti-clockwise)

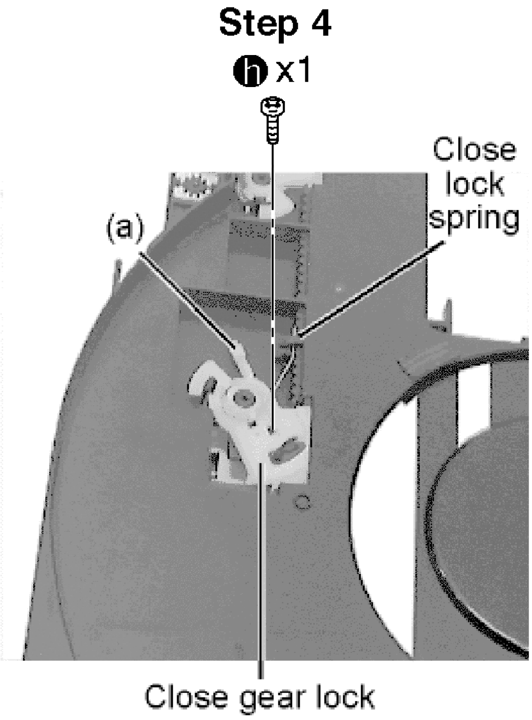


Step 2 Release claw of open lock gear, remove open lock gear in the direction of arrow.

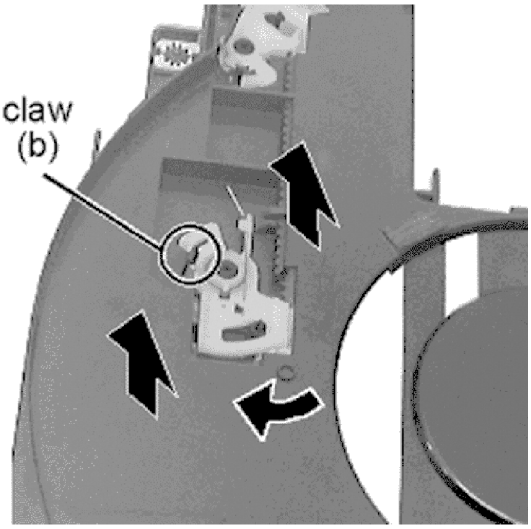
10.17.2. Disassembly of the Close Lock Gear

- Follow (Step 1) to (Step 3) of Item 10.5.

Step 1 Remove 1 screw.


Step 4
ⓗ x1
Close lock spring
(a)
Close gear lock

Step 2 Hook close lock spring to claw (a).

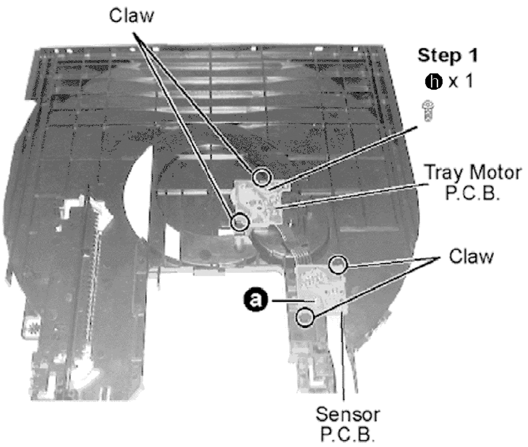


Step 3 Rotate close lock gear to direction of arrow, press claw (b) and pull out close lock gear.

10.17.3. Disassembly of the Tray Motor P.C.B. and Sensor P.C.B.

- Follow (Step 1) to (Step 3) of Item 10.5.

Step 1 Remove 2 screws.

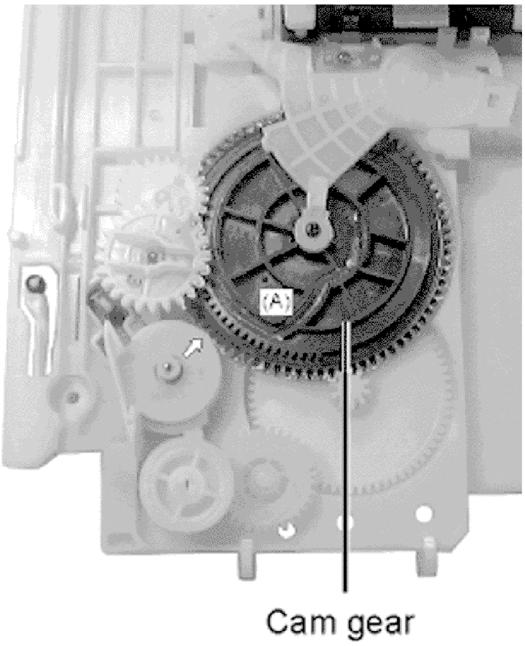

Claw
Step 1
ⓗ x 1
Tray Motor P.C.B.
Claw
ⓐ
Sensor P.C.B.

Step 2 Release 4 claws at Tray Motor P.C.B. and Sensor P.C.B.

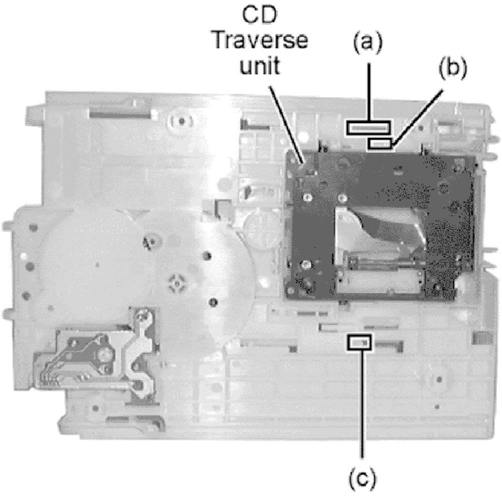
10.18. Disassembly of the Traverse Unit

- Follow the Item 10.7.

Step 1 Rotate cam gear anti-clockwise. (Align at position (A) as marking on gear with arrow)



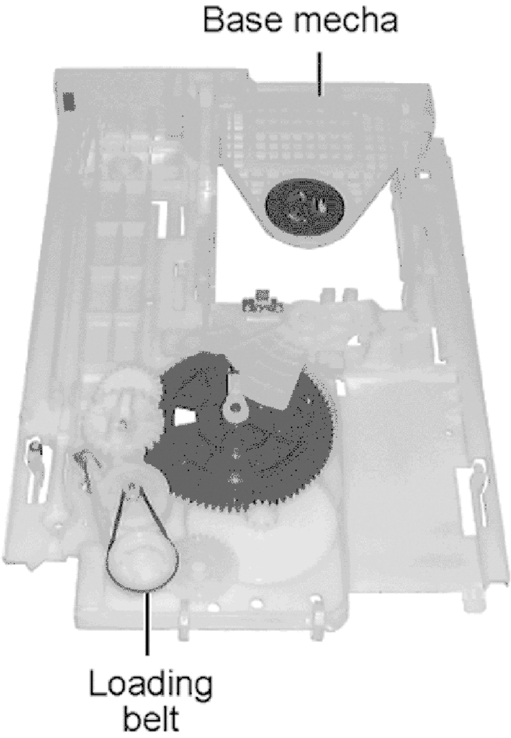
Step 2 Flip the base mecha unit in vertical position.


CD
Traverse
unit
(a)
(b)
(c)

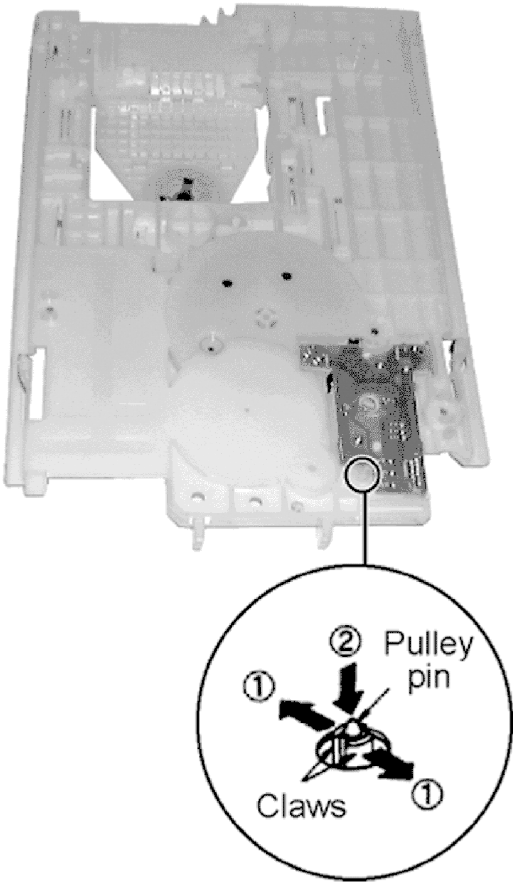
Step 3 Press upward (a), push backward (b) and press to left (c) to release CD traverse unit.

10.18.1. Disassembly of the Pulley Gear

Step 1 Remove of the loading belt.


Base mecha
Loading
belt

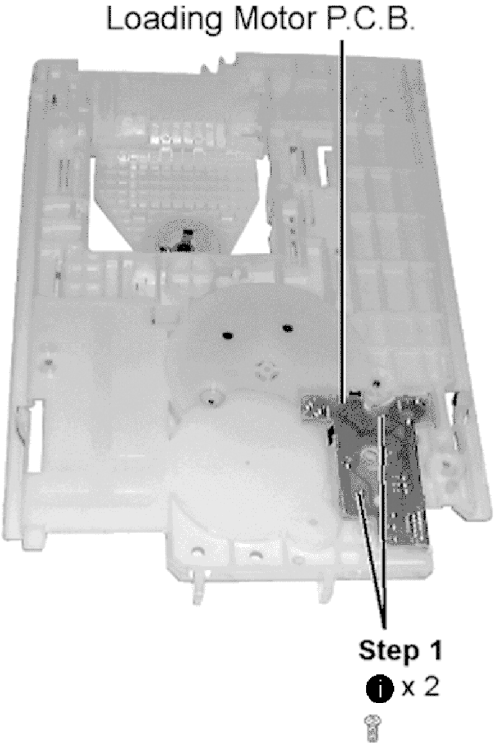
Step 2 Flip the base mecha.


②
Pulley pin
①
Claws
①

Step 3 Release the 2 claws in the direction of arrow (1), and then push the pulley pin in the direction of arrow (2).

10.18.2. Disassembly of the Loading Motor P.C.B.

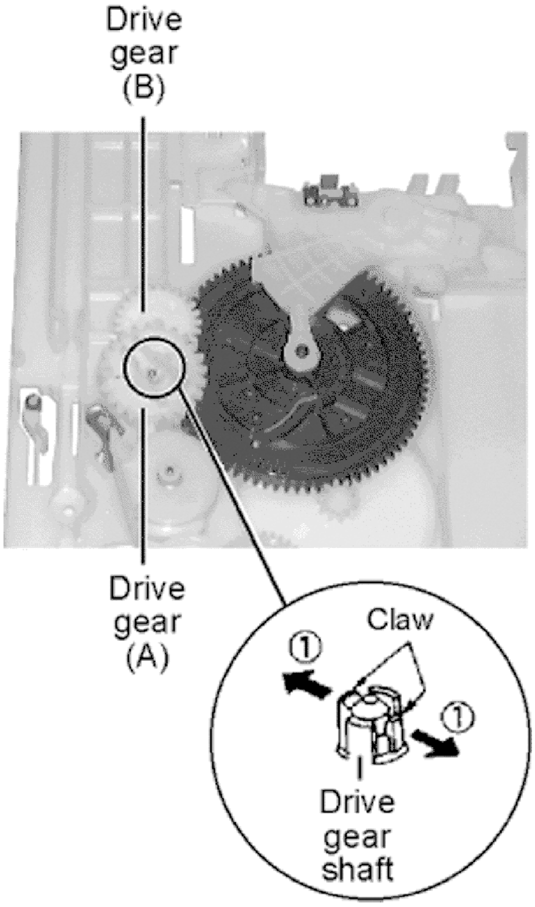
Step 1 Remove 2 screws.


Loading Motor P.C.B.
Step 1
x 2

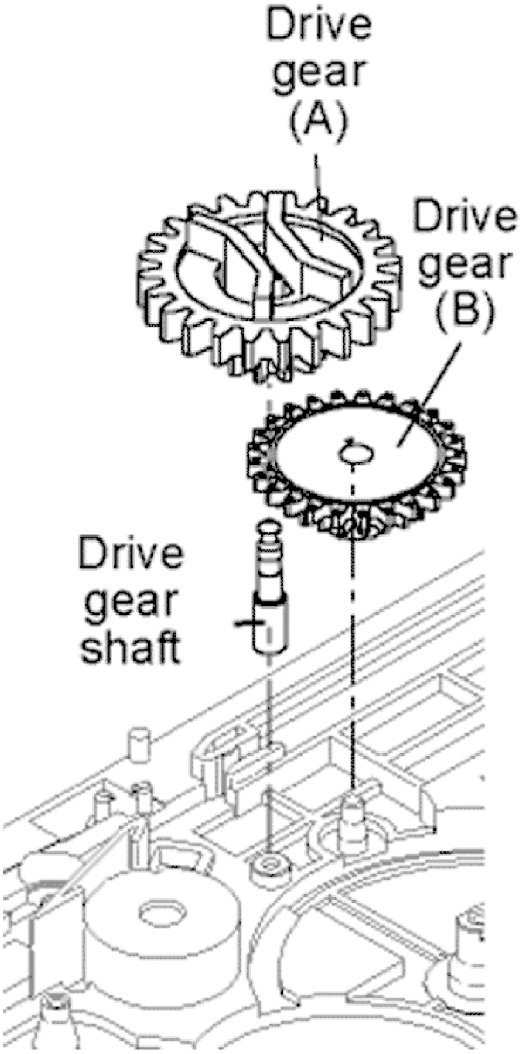
Step 2 Remove Loading Motor P.C.B.

10.18.3. Disassembly of the Drive Gear (A) & (B)

Step 1 Release the claw in the direction of arrow (1), and then push drive gear shaft up.

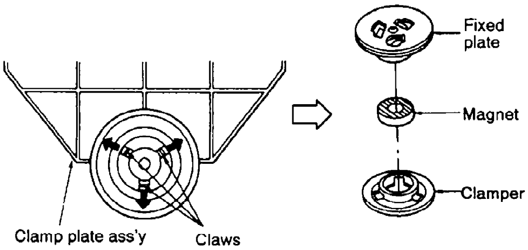

Drive gear (B)
Drive gear (A)
Claw
①
①
Drive gear shaft

Step 2 Remove Drive Gear (A) and Drive Gear (B).


Drive gear (A)
Drive gear (B)
Drive gear shaft

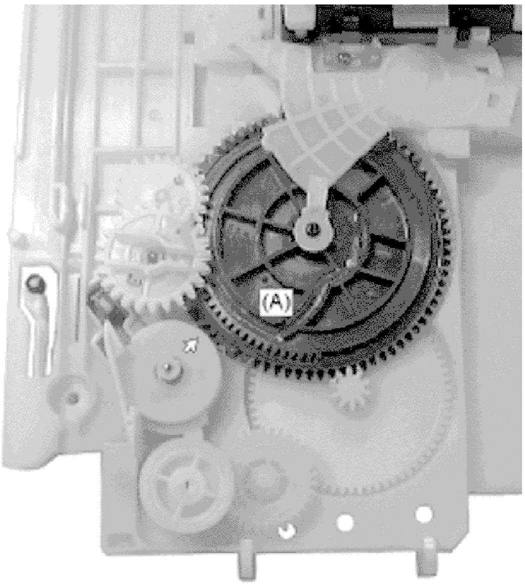
10.18.4. Disassembly of Fixed Plate, Magnet and Clamper

Release 3 claws in the direction of arrow.

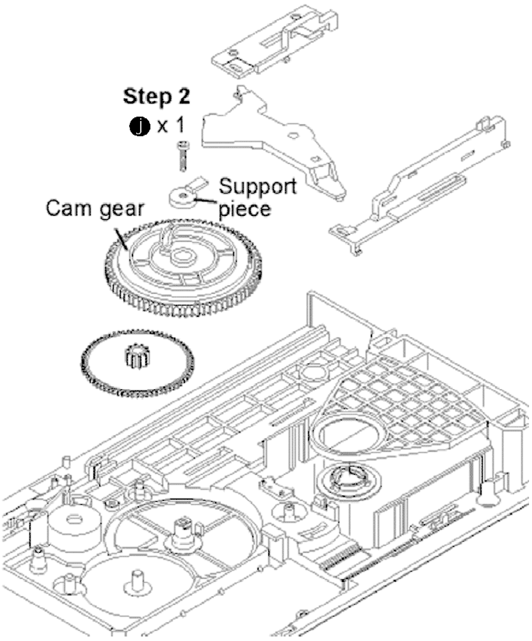

Fixed plate
Magnet
Clamper
Clamp plate ass'y
Claws

10.18.5. Disassembly of Cam Gear & Support Piece

Step 1 Rotate (A) in cam gear anti-clockwise.

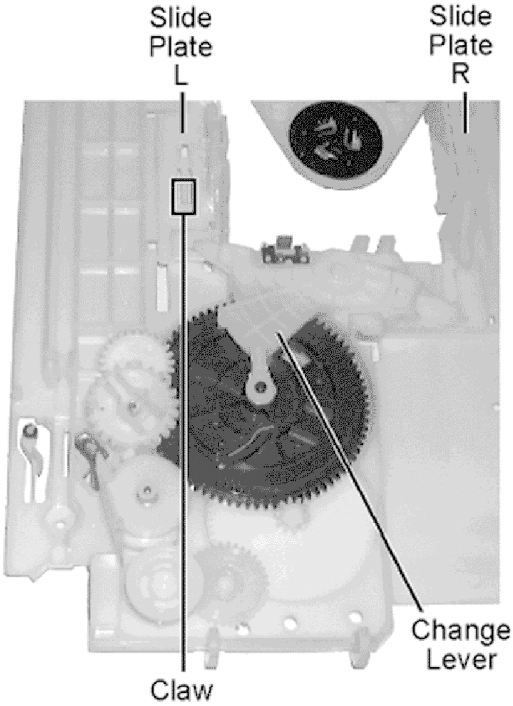


Step 2 Remove 1 screw and support piece.

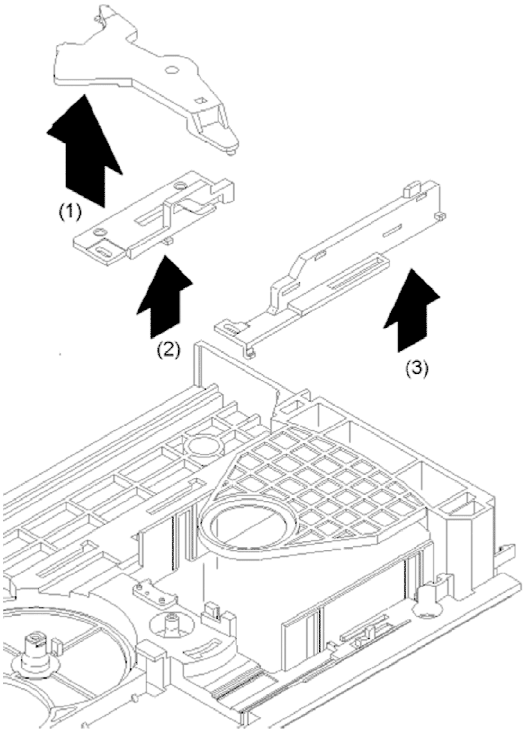

Step 2
J x 1
Support piece
Cam gear

10.18.6. Disassembly of the Slide Plate (L) & (R) and Change Lever

Step 1 Press the claw and push the Slide Plate (L) up.

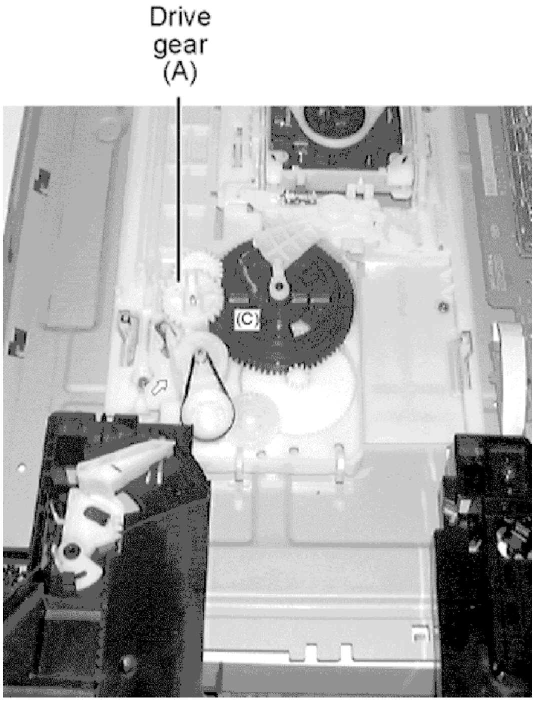

Slide Plate L
Slide Plate R
Change Lever
Claw

Step 2 Remove slide plate (L) & (R) and change lever as arrow shown.

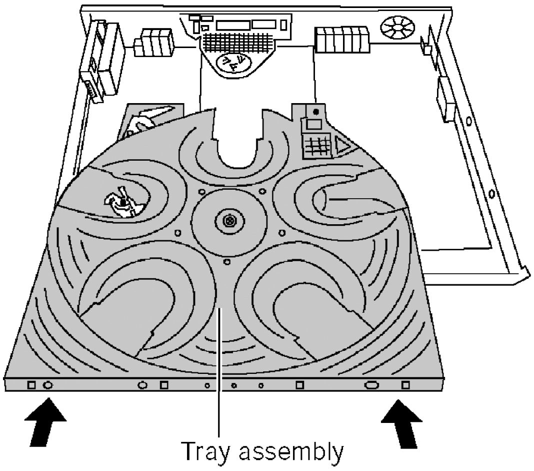


10.19. Assembly of Tray Assembly

Step 1 Rotate cam gear anti-clockwise. Align at position (C) as marking on gear with arrow.



Step 2 Make sure drive gear (A) at vertical position.



Step 3 Push tray assembly to the direction of arrow shown.

11. Service Fixture and Tools

Prepare service tools before proccess service position.

Service Tools	
Loading Motor P.C.B. - Main P.C.B.	**REEX0633 (11 pin)**
Sensor P.C.B. - Power P.C.B.	**REEX0465 (11 pin)**

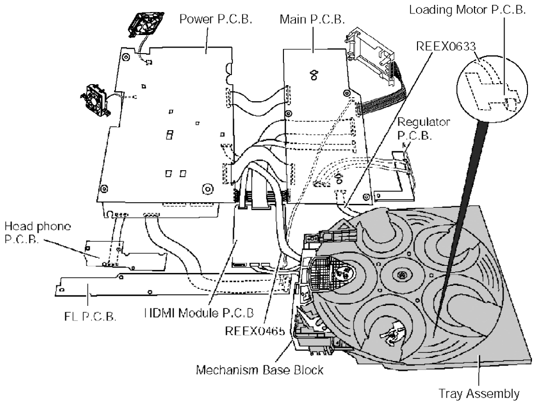
12. Service Positions

12.1. Checking & Repair Main P.C.B., Power P.C.B., HDMI Module

P.C.B., FL and Head phone P.C.B.

- **Follow the Item 10.5.**
- **Follow the (Step 1) - (Step 4) of Item 10.6.**
- **Follow the (Step 1) - (Step 3) of Item 10.7.**
- **Follow the (Step 1) - (Step 3) of Item 10.8.**
- **Follow the (Step 1) - (Step 3) of Item 10.9.**
- **Follow the (Step 1) - (Step 3) of Item 10.10.**
- **Follow the (Step 1) - (Step 3) of Item 10.11.**
- **Follow the (Step 1) - (Step 3) of Item 10.12.**

Step 1 Change cable (REEX0524) to extended cable (REEX0633).
Step 2 Change cable (REZ1483) to extended cable (REEX0465).
Step 3 Connect all the cables.
Step 4 Connect 2 fans.
Step 5 Turn over Power P.C.B., Main P.C.B., HDMI module P.C.B., FL P.C.B. and Head phone P.C.B.
Step 6 Position mechanism base block and tray assembly in horizontally.
Step 7 Connect the AC cord and switch on the power.
Step 8 Insert CD into tray assembly.
Step 9 Press DISC SELECTOR button to lock the CD. For example, press “1” of “5 DISC SELECTOR” if the CD is placed at the first disc tray.


Power P.C.B.
Main P.C.B.
Loading Motor P.C.B.
REEX0633
Regulator P.C.B.
Head phone P.C.B.
FL P.C.B.
HDMI Module P.C.B
REEX0465
Mechanism Base Block
Tray Assembly

13. Measurements and Adjustments

13.1. Service Tools and Equipment

Application	Name	Number
Tilt adjustment	DVD test disc	DVDT-S20 [SPG]
	TORX screw driver (T6)	Available on sales route. (T6) or RFKZ0185 [SPG]
Others	Grease	RFKXPG641 [SPG]
Confirmation	CD test disc	PVCD-K06 or any other commercially available disc
	VCD test disc	PVCD-K06 or any other commercially available disc
	Recovery disc	RFKZD03R005 [SPG]

13.2. Important points in adjustment

13.2.1. Important points in optical adjustment

- Before starting optical adjustment, be sure to take anti-static measures.
- Optical pickup tilt adjustment is needed after replacement of the following components.

1. Optical pickup unit
2. Spindle motor unit
3. Optical pickup peripheral parts

Notes

Adjustment is generally unnecessary after replacing other parts of the traverse unit. However, make adjustment if there is a noticeable degradation in picture quality. Optical adjustments cannot be made inside the optical pickup. Adjustment is generally unnecessary after replacing the traverse unit.

13.2.2. Important points in electrical adjustment

- Follow the adjustment procedures described in this manual.

13.3. Storing and handling of test discs

- Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.

1. Do not place discs directly onto the workbench, etc., after use.
2. Handle discs carefully in order to maintain their flatness. Place them into their case after use and store them vertically. Store discs in a cool place where they are not exposed to direct sunlight or air from air conditioners.

3. Accurate adjustment will not be possible if the disc is warped when placed on a surface made of glass, etc. If this happens, use a new test disc to make optical adjustments.
4. If adjustment is done using a warped disc, the adjustment will be incorrect and some discs will not be playable.

13.4. Optical adjustment

13.4.1. Optical pickup tilt adjustment

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw Tilt adjustment screw	T01 (inner periphery) play T30 (center periphery) T43 (outer periphery) play	DVDT-S20 [SPG]
Measuring equipment		Adjustment value	
None (Main unit display for servicing is used.)		Adjust to the minimum jitter value.	

13.4.1.1. Adjustment procedure

1. While pressing STOP button on the main unit, press "5" on the remote control unit.
2. Confirm that "J_xxx/yyy_zz" (display1/display2) is shown on the front display.

For your information:
"yyy" and "zz" shown to the right have nothing to do with the jitter value. "yyy" is the error counter, while "zz" is the focus drive value.

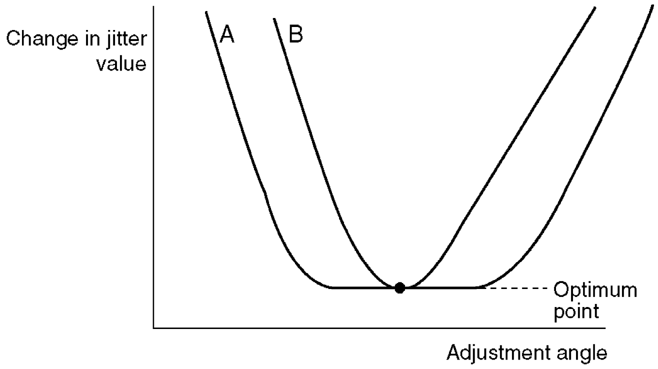
Note:
Jitter value appears on the front display.

3. Play test disc T30 (center periphery).
4. Adjust tangential adjustment screw so that the jitter value is minimized.
5. Play test disc T30 (center periphery).
6. Adjust tilt adjustment screw 1 so that the jitter value is minimized.
7. Play test disc T30 (center periphery).
8. Adjust tilt adjustment screw 2 so that the jitter value is minimized.

9. **Repeat adjusting tilt adjustment screws 1 and 2 alternately until the jitter value is minimized.**

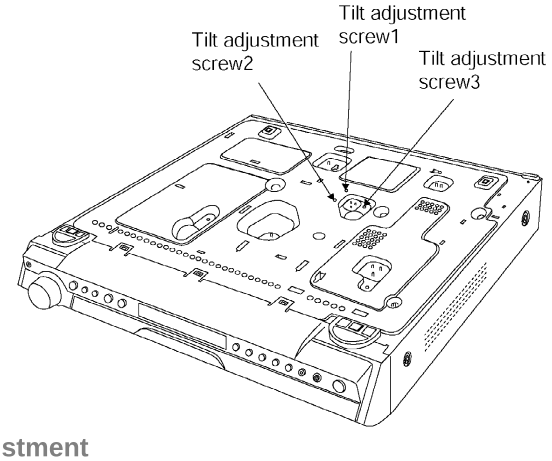
13.4.1.2. Important points

1. **Make tangential adjustment first, and then make tilt adjustment.**
2. **Repeat adjusting two or three times to find the optimum point.**
3. **Finish the procedure with tilt adjustment.**



Jitter value depends on the model:

1. **If the jitter value changes like B, the optimum point is easy to find.**
2. **If the jitter value changes like A, set the optimum point near the middle.**



13.4.1.3. Check after adjustment

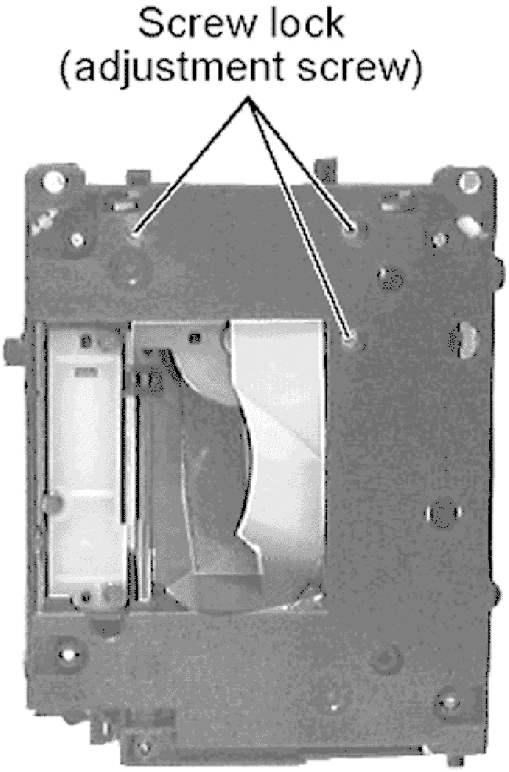
Play test disc or any other disc to make sure there is no picture degradation in the inner, middle and outer peripheries, and no audio skipping. After adjustment is finished, lock each adjustment screw in position using screw lock.

13.4.1.4. Procedure for screw lock

1. **After adjustment, remove top cover, tray, clamper base and traverse unit in this sequence.**
2. **Lay the traverse unit upside down, and fix adjustment screw with**

screw lock.

3. After fixing, reassemble traverse unit, clamper base, tray and top cover.



13.5. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	
	ASI	AUDIO RF
	ASO	SERVO AMP INVERTED INPUT
	ASYNC	SERVO AMP OUTPUT
		AUDIO WORD DISTINCTION SYNC

INITIAL/LOGO		ABBREVIATIONS
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR VELOCITY
	CBDO	CAP. BLACK DROP OUT
	CD	COMPACT DISC
	CDSCK	CD SERIAL DATA CLOCK
	CDSRDATA	CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCK SELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIP SELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	DIGITAL MUTE CONTROL
	DO	DROP OUT
	DOUT0~UP	DATA OUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/ 40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
	FSCK	FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
	ISEL	INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORY SERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK / PLLOK	CHANNEL PLL CLOCK PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVE A
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE OUTPUT
	RS	(CD-ROM) REGISTER SELECT
	RSEL	RF POLARITY SELECT
	RST	RESET
	RSV	RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK RECEIVER
	SCL	SERIAL CLOCK
	SCLK	SERIAL CLOCK
	SDA	SERIAL DATA
	SEG0~UP	FL SEGMENT OUTPUT
	SELCLK	SELECT CLOCK
	SEN	SERIAL PORT ENABLE
	SIN1, 2	SERIAL DATA IN
	SOUT1, 2	SERIAL DATA OUT
	SPDI	SERIAL PORT DATA INPUT
	SPDO	SERIAL PORT DATA OUTPUT
	SPEN	SERIAL PORT R/W ENABLE
	SPRCLK	SERIAL PORT READ CLOCK
	SPWCLK	SERIAL PORT WRITE CLOCK
	SQCK	SUB CODE Q CLOCK
	SQCX	SUB CODE Q DATA READ CLOCK
	SRDATA	SERIAL DATA
	SRMADR	SRAM ADDRESS BUS
	SRMDT0~7	SRAM DATA BUS 0~7
	SS	START/STOP
	STAT	STATUS
	STCLK	STREAM DATA CLOCK
	STD0~UP	STREAM DATA
	STENABLE	STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY SELECT
	STVALID	STREAM DATA VALIDITY
	SUBC	SUB CODE SERIAL
	SBCK	SUB CODE CLOCK
	SUBQ	SUB CODE Q DATA
	SYSCLK	

		SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSS SIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
	VSS	SOURCE POWER SUPPLY VOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPT REQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIP SELECT
	XVDS	X V-DEC CONTROL BUS STROBE
	XVSYNCO	X VERTICAL SYNC OUTPUT

14. Voltage and Waveform Chart

14.1. HDMI Module P.C.B.

14.2. Main P.C.B.

14.3. Power P.C.B.

14.4. FL P.C.B.

14.5. Loading Motor P.C.B., Tray Motor P.C.B., Sensor P.C.B. & Regulator P.C.B.

14.6. Waveform Chart

15. Illustration of IC’s, Transistors and Diodes

16. Wiring Connection Diagram

17. Block Diagram

18. Schematic Diagram (Notes)

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

S6801:

Play and memory switch (▶ Memory).

S6802:

R. skip, search and Tuning switch (⏮/◀◀ / TUNING ∨).

S6803:

F. skip, search and Tuning switch (⏭/▶▶ / TUNING ∧).

S6804:

Stop and TUNE mode switch (■ TUNE MODE). /

Pause and FM mode switch (❚❚ FM MODE).

S6808:

Tray open / close switch (⏏ Open / Close).

S6806:

Disc skip switch (DISC SKIP).

S6805:

Disc exchange switch (DISC EXCHANGE).

S6900:

Standby / on switch (POWER ⏻/I).

S6907:

Source select switch (SELECTOR INPUT).

S6902-S6906:

Disc switch (DISC1-DISC5).

S6901:

CD mode switch [PARTY MODE].

S9001:

LOAD SW.

VR6800:

VR VOLUME JOG.

- **Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.**
- **Important safety notice:**
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
  When replacing any of components, be sure to use only manufacturer´s specified parts shown in the parts list.
- **The supply part number is described alone in the replacement parts list.**
- **Voltage and signal line**

➡

: +B Signal line

➡

: CD-DA signal line

⇨

: Main signal line

⇨

: DVD (Video) signal line

⇨

: DVD (Audio) signal line

➡

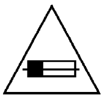
: FM/AM signal line

: -B Signal line

Caution!

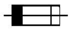
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
Cover the parts boxes made of plastics with aluminum foil.
Ground the soldering iron.
Put a conductive mat on the work table.
Do not touch the legs of IC or LSI with the fingers directly.

CAUTION: FOR CONTINUED PROTECTION
AGAINST FIRE HAZARD,
REPLACE ONLY WITH SAME
TYPE F1 8.0A 125V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION



These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

- Part numbers for the transistors, ICs, and diodes shown in this diagram are the part numbers for production.
  When ordering replacements, use the part numbers shown in the replacement parts list.
- The area marked [****] includes AC 120 V.
  Take proper precautions during servicing and repair.

19. Schematic Diagram

19.1. (A) HDMI Module Circuit

19.2. (B) Main Circuit

19.3. (C) Power, AC-inlet and Sub power Circuit

19.4. (C) FL and Headphone Circuit

19.5. (D) Loading Motor, Tray Motor, Sensor and Regulator Circuit

20. Printed Circuit Board

20.1. (A) HDMI Module P.C.B.

20.2. (B) Main P.C.B., AC-Inlet P.C.B. & Sub Power P.C.B

20.3. (C) Power P.C.B.

20.4. (E) FL, Headphone, Loading Motor, Tray Motor, Sensor & Regulator P.C.B.

21. Basic Troubleshooting Guide

21.1. Basic Troubleshooting Guide for Traverse Unit (HDMI Module P.C.B)

21.2. Basic Troubleshooting Guide for HDMI AV output

22. Overall Block Diagram for HT940

22.1. HT940 DVD Unit Block Diagram

22.2. HT940 Block Diagram (Analog Signal)

22.3. HT940 Block Diagram (Analog Signal)

22.4. HT940 Power Supply Block Diagram

22.5. HT940 Power Block Diagram (SMPS)

23. Terminal Function of ICs

23.1. IC2001 (MN101C49GHH): Operation CPU

Pin No.	Terminal Name	I/O	Function
1	AVSS	-	Power supply for A/D converter
2	KEY1	I	Key 1 line input
3	KEY2	I	Key 2 line input
4	DES1	I	Tuner region setting
5	DES2	I	Model code Digit 1
6	DES3	I	DVD region setting
7	DISC SENSE	I	Disc sensor (RC1)
8	DES4	I	Model code Digit 2
9	DES5	I	Model code Digit 3
10	VREF+	-	+ Power supply for A/D converter
11	VCC	-	Power supply (5V)
12	XOUT	-	Main clock output (8MHz)
13	XIN	-	Main clock input (8MHz)
14	VSS	-	GND (0V)
15	VSS	-	GND (0V)
16	N.C	-	No connection
17	VSS	-	GND (0V)
18	DVD_PCONT	O	DVD module power control
19	RF_DET (WM_DET)	I	RF module detection - wireless ready
20	RF_LINK WM_LINK	I	RF link control - wireless ready
21	RF_PCNT (WM_UNMUTE)	O	No connection
22	N.C	-	No connection
23	EDA	I/O	EEPROM data
24	ECK	O	EEPROM clock
25	ECS	O	EEPROM latch
26	RMT	I	REMOCON input
27	HOTPLUG	I	HDMI interrupt 1
28	CEC_IN	I	HDMI interrupt 2
29	POS_SW	I	Position sensor (RC1)
30	PULSE	I	Pulse sensor speed detection (RC1)
31	SYNC	I	AC failure detect input
32	VSS	-	GND (0V)
	VPP	-	Power supply (Flash Micom only)
33	RESET	I	System reset

33	**RESET**	**I**	**System reset**

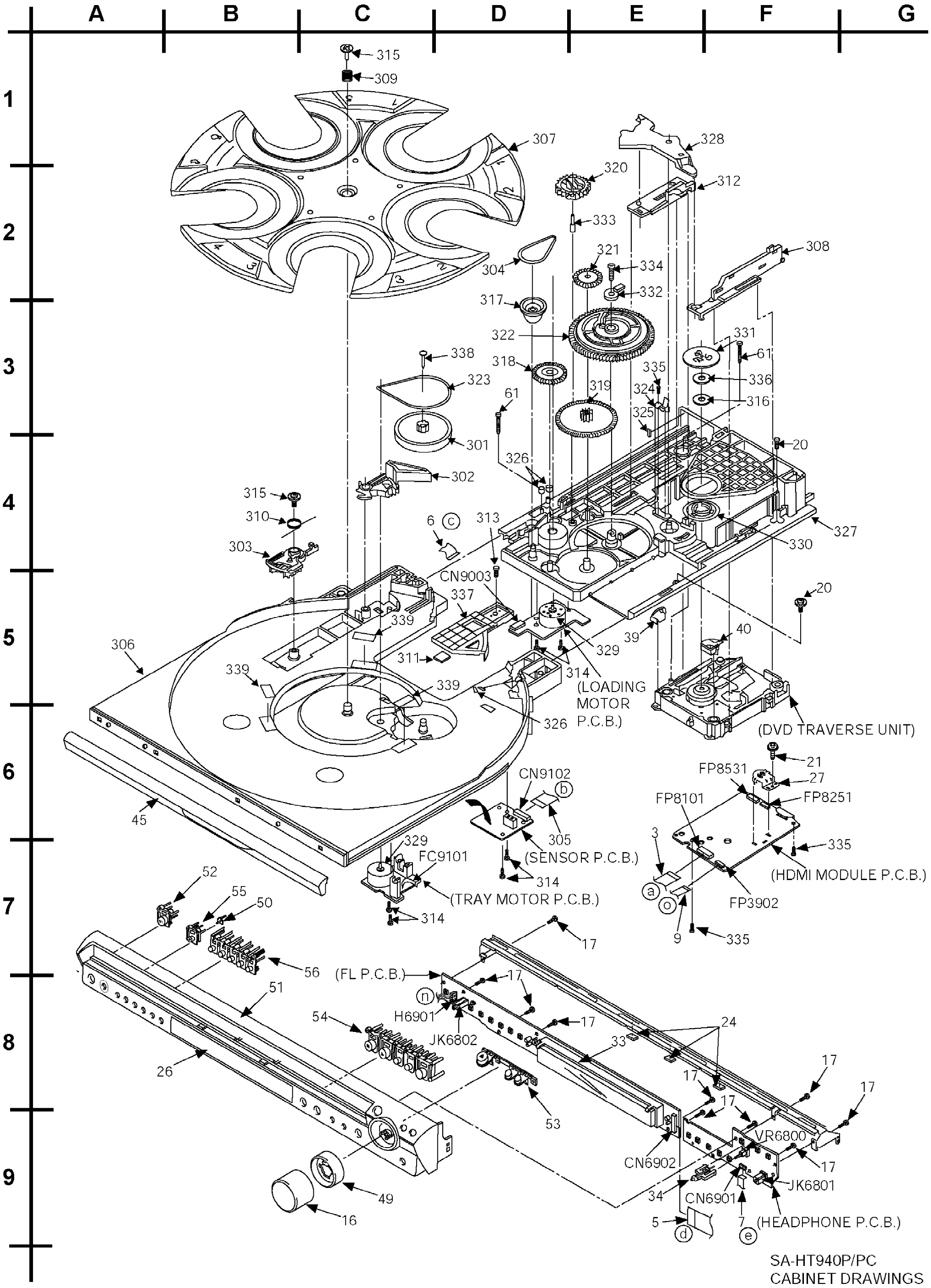
Pin No.	Terminal Name	I/O	Function
34	PWM	O	Pulse width modulation (RC1)
35	AM_BP	O	AM beat proof
36	TU_SCL (PLL_CK)	O	Tuner clock
37	TU_SDA (PLL_DA)	O	Tuner data
38	TU_SD	I	Tuner signal detect
39	ST_DO (TU_ST)	I	Stereo indicator/data (Tuner to Opecon)
40	FM_DET	I	Tuner FM detect (Tuner to Opecon)
41	VPP	-	Power supply (Flash Micom only)
42	DVD_CMD	O	DVD Command (Opecon to syscon)
43	DVD_STA	I	DVD status (Syscon to Opecon)
44	DVD_CK	I	DVD clock (Syscon to Opecon)
45	MUTE_DVD	I	DVD mute (Syscon to Opecon)
46	CHG_DIR (ROLE_CH)	O	Wireless module change direction (Tx_Rx)
47	RMPORT_DET	I	Rear M.Port detect
48	ASP_DA	O	ASP data (R2S15203FP)
49	ASP_CK	O	ASP clock (R2S15203FP)
50	MUTE_HP	O	Headphone mute
51	MP_SEL (SELECT_A)	O	Select front MPort or rear MPort
52	SUB_LIMITER	O	Subwoofer frequency Limiter
53	VMUTE	O	Video mute control
54	N.C	-	No connection
55	WIDE_SURR	O	Surround Enhancer
56	CEC_OUT	I	Output port for HDMI
57	WS_EN	I	Surround Enhancer Enable
58	AGC_SW	-	Connection GND via resistor
59	REG1	I	Speaker protection (For Latin America)
60	MODEL_SEL1	I	Model selector 1
61	MODEL_SEL2	I	Model selector 2
62	HB_EN	I	H.Bass enable (H=Enable, L= Disable)

Pin No.	Terminal Name	I/O	Function
63	N.C	-	No connection
64	MOD_DA	O	Digital amplifier standby control
65	HOP_DA (FHOP)	O	Digital Amp frequency hop control
66	MUTE_FSUB	O	Front_Subwoofer mute
67	N.C	-	No connection
68	MUTE_SC	O	Surround_Centre mute
69	LOAD (CAM_SW)	I	UP/DOWN switch (RC1)
70	OPEN_SW	I	OPEN switch (RC1)
71	PCONT	O	Relay power control (System)
72	N.C	-	No connection
73	N.C	-	No connection
74	N.C	-	No connection
75	N.C	-	No connection
76	N.C	-	No connection
77	N.C	-	No connection
78	N.C	-	No connection
79	N.C	-	No connection
80	N.C	-	No connection
81	DC_DET	I	DC detection (System)
82	DISC1_ / LED	O	Disc LED 1
83	WS_LED	O	Wide surround LED
84	N.C	-	No connection
85	N.C	-	No connection
86	N.C	-	No connection
87	FLD_STB	-	FL driver strobe
88	N.C	-	No connection
89	FL_CK	O	FL driver clock
90	FL_DAT	O	FL driver data
91	JOG_A	I	Volume jog signal A
92	JOG_B	I	Volume jog signal B
93	JOG_LED	O	Volume jog LED
94	LOAD_ / REV	O	Loading motor control (Open /Close-RC1)
95	VSS	-	-ve Power supply for D/A converter
96	LOAD_ / FWD	O	Loading motor control (Open /Close-RC1)

Pin No.	Terminal Name	I/O	Function
97	TURN_ / FWD	O	Tray motor control (Turn-RC1)
98	TURN_ / REW	O	Tray motor control (Turn-RC1)
99	N.C	-	No connection
100	VDD	-	+ve Power supply for D_A converter

24. Exploded Views

24.1. Cabinet Parts Location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CN9003
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339
(LOADING MOTOR P.C.B.)
339
326
(DVD TRAVERSE UNIT)
21
FP8531
27
CN9102
ⓑ
FP8101
FP8251
45
305
3
335
329
(SENSOR P.C.B.)
FC9101
(HDMI MODULE P.C.B.)
314
ⓐ
52
(TRAY MOTOR P.C.B.)
ⓞ
FP3902
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314
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335
17
56
(FL P.C.B.)
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51
ⓝ
54
H6901
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JK6802
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VR6800
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JK6801
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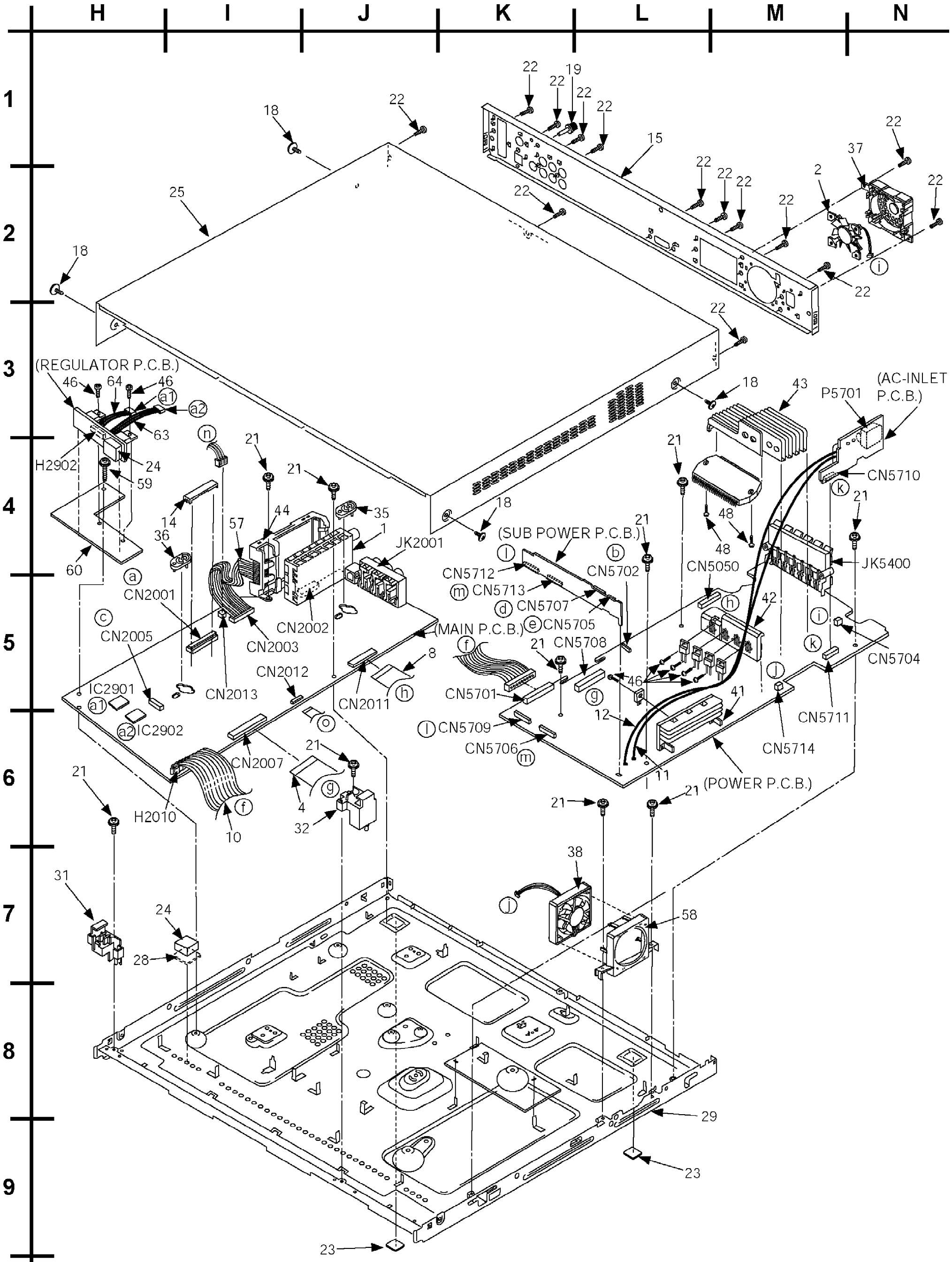
(HEADPHONE P.C.B.)

SA-HT940P/PC
CABINET DRAWINGS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(REGULATOR P.C.B.)
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H2902
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JK2001
(SUB POWER P.C.B.)
CN5712
CN5713
CN5707
CN5705
CN5702
CN5708
CN5050
43
P5701
(AC-INLET P.C.B.)
CN5710
48
JK5400
42
CN5704
CN5711
CN5714
41
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11
(POWER P.C.B.)
CN2001
CN2005
CN2003
CN2002
CN2013
CN2012
CN2011
(MAIN P.C.B.)
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IC2901
IC2902
CN2007
H2010
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CN5701
CN5709
CN5706
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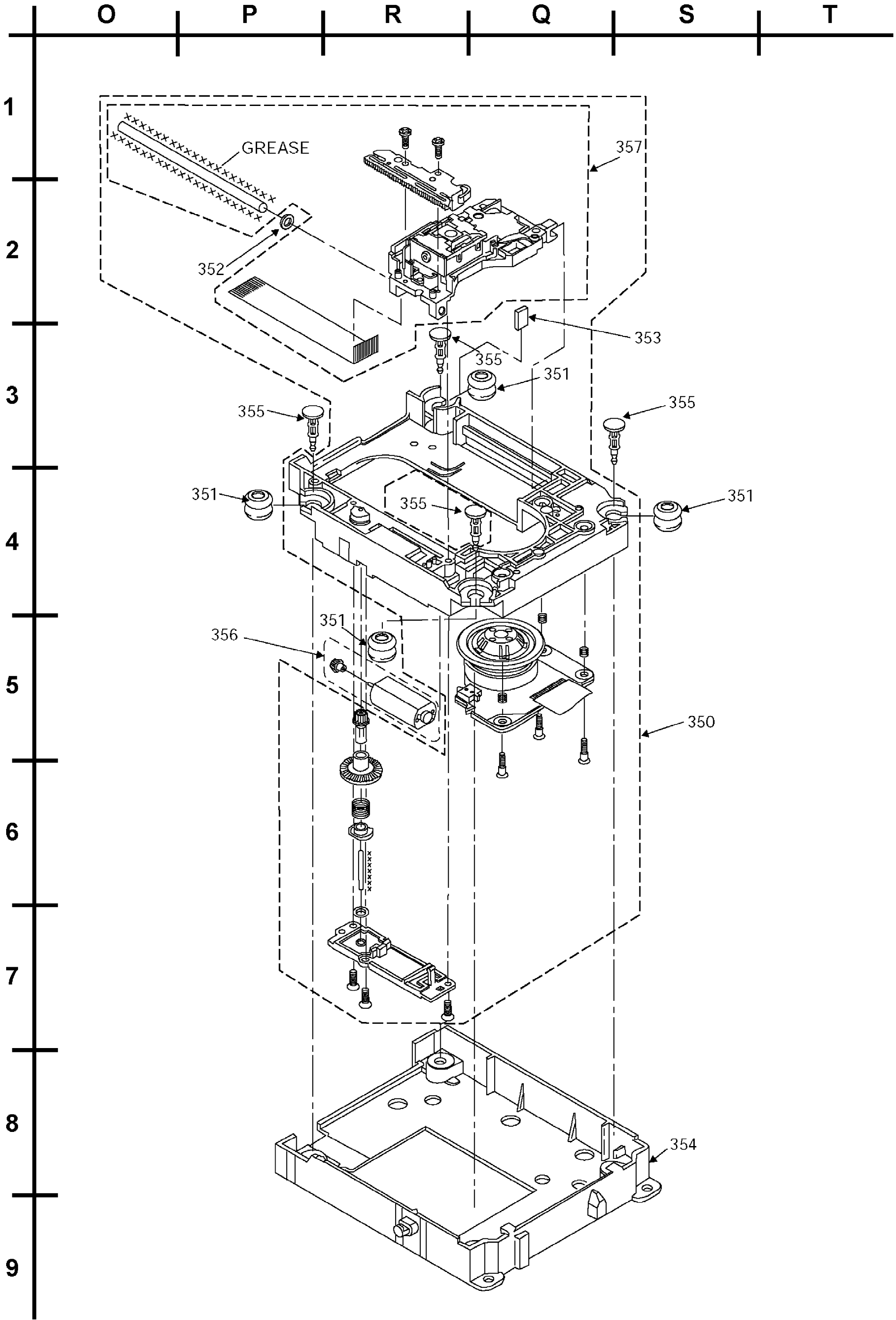
SA-HT940P/PC
CABINET DRAWINGS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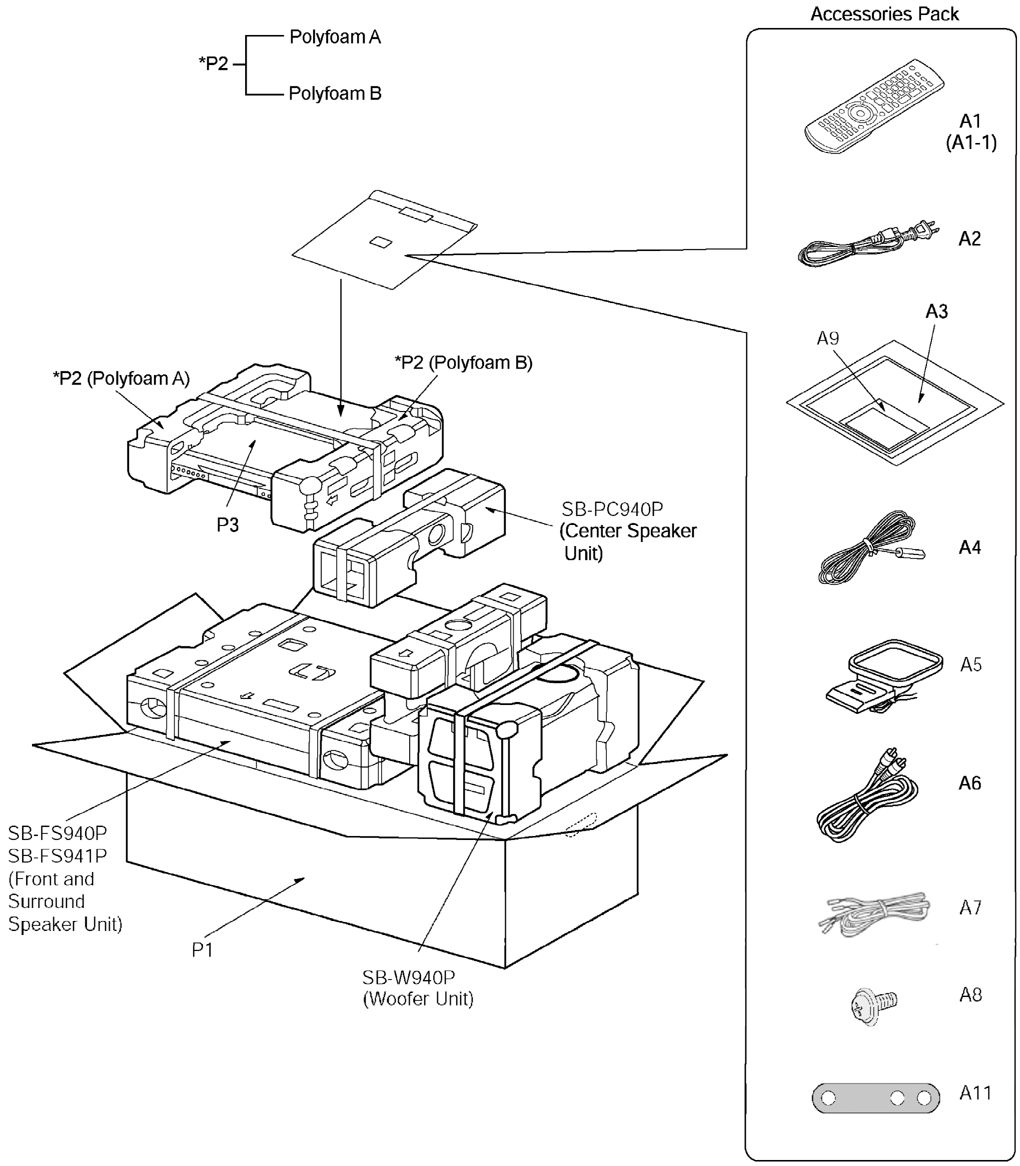
SA-HT940P/PC
TRAVERSE MECHANISM DRAWINGS

24.2. Packaging


Accessories Pack
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Polyfoam A
Polyfoam B
A1
(A1-1)
A2
A3
A9
*P2 (Polyfoam A)
*P2 (Polyfoam B)
P3
SB-PC940P
(Center Speaker
Unit)
A4
A5
A6
A7
A8
A11
SB-FS940P
SB-FS941P
(Front and
Surround
Speaker Unit)
P1
SB-W940P
(Woofer Unit)

25. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety purpose. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacture’s specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000K (OHM).**

***The parenthesized indications in the Remarks columns specify the model names and areas. (Refer to the cover page)**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation**

of this assembly in production, it will no longer be available.
***Reference for O/I book languages are as follows:**
[En: English, Cf: Canadian French]
***[M] indicates in the Remarks columns indicates parts supplied by PAVCSG.**
***[SPG] indicates in the Remarks columns indicates parts supplied by SPG [PAVC].**

25.1. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	J3CCBC000012	TUNER PACK	[M]
2	L6FAYYYH0001	SIDE FAN	[M]
3	REEX0519	50P FFC WIRE	[M]
4	REEX0520	30P FFC WIRE	[M]
5	REEX0521-1	19P FFC WIRE	[M]
6	REEX0524	11P FFC WIRE	[M]
7	REEX0526	9P FFC WIRE	[M]
8	REEX0523	17P FFC WIRE	[M]
9	REEX0525-1	6P FFC WIRE	[M]
10	REXX0499	13P WIRE	[M]
11	REXX0500	PRIMARY WIRE (BLACK)	[M]
12	REXX0512-1	PRYMARY WIRE (RED)	[M]
14	RGQX0027	TOP FFC COVER	[M]
15	RGRX0056D-A	REAR CABINET	[M]P
15	RGRX0056D-B	REAR CABINET	[M]PC
16	RGWX0076-S	VOLUME KNOB	[M]
17	RHD26046	SCREW	[M]
18	RHD30007-1SJ	SCREW	[M]
19	RHD30070	EARTH TERMINAL	[M]
20	RHD30107-1	SCREW	[M]
21	RHD30111-3	SCREW	[M]
22	RHD30119-S	SCREW	[M]
23	RKA0059-K	LEG RUBBER	[M]
24	RKAX0030-K	CUSHION FELT	[M]
25	RKMX0118-S1	TOP CABINET	[M]
26	RKWX0255-Q	FL ORNAMENT	[M]
27	RMAX0090	MECHA/P BRACKET	[M]
28	RMNX0191	PC SHEET COVER	[M]
29	RMKX0115-1	BOTTOM CHASSIS	[M]
31	RMN0730	TRAY GUIDE L	[M]
32	RMN0731	TRAY GUIDE R	[M]
33	RMNX0149	FL HOLDER	[M]
34	RMNX0151-1	LED HOLDER	[M]
35	RMNX0166	MECHA HOLDER A	[M]
36	RMNX0171	MECHA HOLDER B	[M]
37	RMQX0153-H	FAN BRACKET	[M]
38	RMQX0185	FAN BRACKET	[M]
39	RMX0274	TRAY SUPPORT R	[M]
40	RMX0275	TRAY SUPPORT L	[M]
41	RXXX0067	HEAT SINK C	[M]
42	RXXX0068	HEAT SINK D	[M]
43	RXXX0077	HEAT SINK E	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
44	RYPX0113-X	TRANSMITTER CHASSIS	[M]
45	RYQX0259-S2	TRAY LID ASS'Y	[M]
46	XTB3+10JFJ	SCREW	[M]
48	XTW3+15TFJ	SCREW	[M]
49	RGKX0329-Q	LIGHTING RING	[M]
50	RGLX0130-Q	SURROUND LIGHT CHIP	[M]
51	RGPX0210-S2	FRONT PANEL	[M]
52	RGUX0647-S	POWER BUTTON	[M]
53	RGUX0648-S	OPEN/CLOSE BUTTON	[M]
54	RGUX0649-S	PLAY BUTTON	[M]
55	RGUX0667-S	SURROUND BUTTON	[M]
56	RGUX0668-Q	5 DISC BUTTON	[M]
57	K1NA11B00004	WIRELESS CONNECTOR	[M]
58	L6FAJCCH0007	FAN UNIT	[M]
59	RHD30102-1	SCREW	[M]
60	RMYX0166	HEATSINK	[M]
61	XTB3+16JFJ	CLAMPER ASS'Y SCREW	[M]
63	REXX0542	3P WIRE (REG TO MAIN)	[M]
64	REXX0541	3P WIRE (REG TO MAIN)	[M]
		TRAVERSE DECK	
301	RDG0567	PULSE GEAR	[M]
302	RDG0568	OPEN LOCK GEAR	[M]
303	RDG0569-1	CLOSE LOCK GEAR	[M]
304	RDV0073	TRAY BELT	[M]
305	REZ1734	FFC WIRE	[M]
306	RGQ0446-K	TRAY BASE	[M]
307	RGQ0359-K1	ROTARY TRAY	[M]
308	RMM0254-2	SLIDE PLATE R	[M]
309	RMB0842	TRAY SPRING	[M]
310	RME0384	CLOSE LOCK GEAR SPRING	[M]
311	RMF0324-1	BLOCK SHEET	[M]
312	RMM0255	SLIDE PLATE L	[M]
313	XTB3+10JFJ	SCREW	[M]
314	XTN26+8GFJ	SCREW	[M]
315	XTWS3+10SFJ	SCREW	[M]
316	RHM0003-J	MAGNET	[M]
317	RDG0562	PULLEY GEAR	[M]
318	RDG0563-1	REALAY GEAR A	[M]
319	RDG0564	RELAY GEAR B	[M]
320	RDG0565	DRIVE GEAR A	[M]
321	RDG0566	DRIVE GEAR B	[M]
322	RDG0570	CAM GEAR	[M]
323	RDV0072	LOADING BELT	[M]
324	RMC0387	SUPPORT SPRING	[M]
325	RMG0615-K	CUSHION SHEET	[M]
326	RMG0620-K	CUSHION RUBBER	[M]
327	RMK0555	MECHA BASE	[M]
328	RML0646	CHANGE LEVER	[M]
329	REM0112	LOADING MOTOR ASS'Y	[M]
330	RMR1446-X	CLAMPER	[M]
331	RMR1447-X	MAGNET HOLDER	[M]
332	RMR1507-X	SUPPORT PIECE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
333	RMS0802-J	DRIVE SHAFT	[M]
334	XTN26+14JFJK	SUPPORT PIECE SCREW	[M]
335	XTV2+6GFJ	PCB SCREW	[M]
336	XWG6FFJ	WASHER	[M]
337	RMM0256-2	BLOCK BASE	[M]
338	RMS0123-1	FIXED PIN B	[M]
339	RMF0182	TRAY FELT	[M]
350	RAE2019W-S	DT6 TRAVERSE	[M]
351	RMG0598-A	FLOATING RUBBER	[M]
352	RMG0617-H	CUSHION RUBBER A	[M]
353	RMG0618-H	CUSHION RUBBER B	[M]
354	RMR1753-X	MIDDLE CHASSIS	[M]
355	RMS0789	FIXED PIN	[M]
356	RXQ0946	TRAVERSE MOTOR ASS’Y	[M]
357	RXQ1391	DVD OPU SUB ASS’Y	[M]
		PRINTED CIRCUIT BOARDS	
	REP4034B	HDMI MODULE P.C.B.	[M] (RTL)
	REPX0505A	MAIN P.C.B.	[M] (RTL)
	REPX0540A	POWER P.C.B.	[M] (RTL)
	REPX0540A	SUB POWER P.C.B.	[M] (RTL)
	REPX0540A	AC INLET P.C.B.	[M] (RTL)
	REPX0540A	FL P.C.B.	[M] (RTL)
	REPX0540A	HEADPHONE P.C.B.	[M] (RTL)
	REP3465B	LOADING MOTOR P.C.B.	[M] (RTL)
	REP3466B	TRAY MOTOR P.C.B.	[M] (RTL)
	REP3466B	SENSOR MOTOR P.C.B.	[M] (RTL)
	REPX0549A	REGULATOR P.C.B	[M] (RTL)
		INTEGRATED CIRCUITS	
IC2001	MN101C49GHH	IC SYSTEM CONTROL	[M]
IC2003	C0GAG0000007	IC MOTOR DRIVE LOADING	[M]
IC2102	C1BB00001098	IC ASP	[M]
IC2103	C0AABB000125	IC HEADPHONES AMP	[M]
IC2104	C0ABCB000052	IC QUAD OP-AMP	[M]
IC2105	C0ABCB000088	IC MUSIC PORT AMP	[M]
IC2205	C0ABCB000052	IC QUAD OP-AMP	[M]
IC2301	C0JBAR000326	IC 4 CHANNEL SW	[M]
IC2801	C9ZB00000461	IC VIDEO BUFFER	[M]
IC2901	C0DAZYY00001	IC +9V REGULATOR	[M]
IC2902	C0DAZYY00001	IC +9V REGULATOR	[M]
IC2903	C0DAAMH00012	IC SW REGULATOR	[M]
IC2904	C0CAADE00007	IC +5V REGULATOR	[M]
IC2906	C0JBAR000326	IC MPORT SELECTOR	[M]
IC2907	C0CBADG00023	IC+5V REGULATOR (DVD)	[M]
IC2908	C0CBADG00023	IC+5V REGULATOR (DVD)	[M]
IC3701	MN864701	IC HDMI TRASMITTER	[M]
IC3782	C0CBCAD00082	IC 1.8V DC-DC CONVERTER	[M]
IC3901	C1AB00002239	IC HDMI TRASMITTER	[M]
IC3931	C0JBAA000344	IC AND GATE	[M]
IC3952	C0CBCDC00063	IC +5V REGULATOR	[M]
IC5001	RSN704D66-P	IC DIGITAL POWER AMP	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC5002	C0ABBA000163	IC DUAL OP AMP	[M]
IC5004	C0CBADE00023	IC TERMINAL	[M]
IC5010	C0JBAB000472	IC INVERTER GATE	[M]
IC5701	C0DAAMH00004	IC SW REGULATOR	[M]
IC5702	C0DABFC00002	IC SHUNT REGULATOR	[M]
IC5703	C0ABBB000067	IC DIFFERENTIAL AMP	[M]
IC5705	C0CAAYG00011	IC TERMINAL	[M]
IC5721	C0DABYY00002	IC SW REGULATOR	[M]
IC5750	C0GAG0000007	IC MOTOR DRIVE (TRAY)	[M]
IC6901	C0HBB0000057	IC DISPLAY DRIVER	[M]
IC8001	MN2DS0009AP	IC DV3.2 LSI	[M]
IC8051	C3ABPG000133	IC 64M SDRAM	[M]
IC8111	C0DBZYY00018	IC 3.3V DC-DC CONVERTER	[M]
IC8151	C0DBEHG00006	IC 1.2V REGULATOR	[M]
IC8251	C0GBG0000048	IC MOTOR DRIVER	[M]
IC8421	C0FBBK000050	IC AUDIO DAC	[M]
IC8601	C0EBA0000029	IC RESET	[M]
IC8606	C0EBE0000455	IC RESET	[M]
IC8651	RFKWMHA0L160	IC 16M FLASH ROM	[SPG]
IC8691	C0JBAA000346	IC AND GATE	[M]
IC8695	C0JBAA000346	IC AND GATE	[M]
IC8701	C0JBAB000614	INVERTER	[M]
		TRANSISTORS	
Q2001	B1GBCFJJ0051	TRANSISTOR	[M]
Q2003	B1GBCFLL0037	TRANSISTOR	[M]
Q2006	B1GBCFJN0033	TRANSISTOR	[M]
Q2095	B1GDCFJJ0047	TRANSISTOR	[M]
Q2096	2SD0601AHL	TRANSISTOR	[M]
Q2097	2SD0601AHL	TRANSISTOR	[M]
Q2098	B1GBCFJN0033	TRANSISTOR	[M]
Q2101	B1GFGCAA0001	TRANSISTOR	[M]
Q2201	B1GDCFGA0018	TRANSISTOR	[M]
Q2303	B1GDCFGA0018	TRANSISTOR	[M]
Q2306	B1GFGCAA0001	TRANSISTOR	[M]
Q2307	B1GFGCAA0001	TRANSISTOR	[M]
Q2308	B1GFGCAA0001	TRANSISTOR	[M]
Q2309	B1GBCFJN0033	TRANSISTOR	[M]
Q2310	B1GDCFGA0018	TRANSISTOR	[M]
Q2602	B1ABGC000001	TRANSISTOR	[M]
Q2603	B1GDCFGA0018	TRANSISTOR	[M]
Q2801	B1GBCFJN0033	TRANSISTOR	[M]
Q2901	B1ABCF000176	TRANSISTOR	[M]
Q2903	B1BACD000018	TRANSISTOR	[M]
Q2904	B1AAKD000012	TRANSISTOR	[M]
Q2906	B1BCCD000019	TRANSISTOR	[M]
Q2907	B1ADCF000001	TRANSISTOR	[M]
Q2909	B1GBCFJN0033	TRANSISTOR	[M]
Q2911	B1ABCF000176	TRANSISTOR	[M]
Q2912	B1ABCF000176	TRANSISTOR	[M]
Q2913	B1ABCF000176	TRANSISTOR	[M]
Q2914	B1ADCF000001	TRANSISTOR	[M]
Q2935	B1BACD000018	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q3901	2SD1819A0L	TRANSISTOR	[M]
Q3902	B1CFHA000002	TRANSISTOR	[M]
Q3903	B1CFHA000002	TRANSISTOR	[M]
Q3941	2SD1819A0L	TRANSISTOR	[M]
Q3942	2SD1819A0L	TRANSISTOR	[M]
Q3943	2SD1819A0L	TRANSISTOR	[M]
Q5001	B1ABCF000011	TRANSISTOR	[M]
Q5002	B1ABCF000011	TRANSISTOR	[M]
Q5014	B1ABCF000011	TRANSISTOR	[M]
Q5015	B1ADBL000010	TRANSISTOR	[M]
Q5022	B1ABCF000011	TRANSISTOR	[M]
Q5023	B1ABCF000011	TRANSISTOR	[M]
Q5025	B1ABCF000011	TRANSISTOR	[M]
Q5031	B1ADBL000010	TRANSISTOR	[M]
Q5095	B1ABCF000011	TRANSISTOR	[M]
Q5096	B1ABCF000011	TRANSISTOR	[M]
Q5701	2SC3940ARA	TRANSISTOR	[M]
Q5702	B1ABCF000011	TRANSISTOR	[M]
Q5703	B1ABCF000176	TRANSISTOR	[M]
Q5704	B1ADBL000010	TRANSISTOR	[M]
Q5705	B1ABCF000176	TRANSISTOR	[M]
Q5706	B1AAKD000012	TRANSISTOR	[M]
Q5726	B1ABCF000011	TRANSISTOR	[M]
Q5740	B1BACG000048	TRANSISTOR	[M]
Q5741	B1ABCF000011	TRANSISTOR	[M]
Q5742	B1ABCF000011	TRANSISTOR	[M]
Q5744	B1ABCF000011	TRANSISTOR	[M]
Q5745	B3PBA0000237	TRANSISTOR	[M]
Q5746	B1GBCFJN0033	TRANSISTOR	[M]
Q5747	B1GDCFJJ0047	TRANSISTOR	[M]
Q5748	B3PBA0000237	TRANSISTOR	[M]
Q5750	B1GBCFJJ0051	TRANSISTOR	[M]
Q5751	2SC3940ARA	TRANSISTOR	[M]
Q5752	B1ACKD000005	TRANSISTOR	[M]
Q5753	B1ADCF000001	TRANSISTOR	[M]
Q5760	B1ABCF000011	TRANSISTOR	[M]
Q5801	B3PBA0000237	TRANSISTOR	[M]
Q5908	B1ACKD000005	TRANSISTOR	[M]
Q5930	B1ABCF000011	TRANSISTOR	[M]
Q5932	B1ADCF000001	TRANSISTOR	[M]
Q6901	B1GBCFJN0033	TRANSISTOR	[M]
Q6902	B1GBCFJN0033	TRANSISTOR	[M]
Q8551	2SD1819A0L	TRANSISTOR	[M]
Q8552	B1ADGB000008	TRANSISTOR	[M]
Q8561	2SD1819A0L	TRANSISTOR	[M]
Q8562	B1ADGB000008	TRANSISTOR	[M]
QR8111	XP0621400L	CHIP TRANSISTOR	[M]
QR8420	UNR521100L	CHIP TRANSISTOR	[M]
QR8571	UNR511V00L	CHIP TRANSISTOR	[M]
Q9001	B3NAA0000098	CAM SENSOR	[M]
Q9101	B3NAA0000082	POSITION SENSOR	[M]
Q9102	B3NAA0000102	PHOTO INTERRUPTOR	[M]
Q9103	B3NAB0000027	PHOTO REFLECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
PC5701	B3PBA0000237	PHOTOCOUPLER	[M] ⚠
PC5721	B3PBA0000237	PHOTOCOUPLER	[M] ⚠
		DIODES	
D2001	B0ECKM000016	DIODE	[M]
D2002	B0ECKM000016	DIODE	[M]
D2005	B0ACCK000005	DIODE	[M]
D2007	B0ACCK000005	DIODE	[M]
D2008	B0ACCK000005	DIODE	[M]
D2600	B0ACCK000005	DIODE	[M]
D2601	B0ACCK000005	DIODE	[M]
D2603	B0ACCK000005	DIODE	[M]
D2902	B0BC7R500001	DIODE	[M]
D2904	B0JCPD000025	DIODE	[M]
D2906	B0ADCJ000020	DIODE	[M]
D2907	B0ADCJ000020	DIODE	[M]
D2912	B0BC3R700004	DIODE	[M]
D2915	B0BC5R600003	DIODE	[M]
D2934	B0ACCK000005	DIODE	[M]
D2935	B0ACCK000005	DIODE	[M]
D2936	B0ACCK000005	DIODE	[M]
D2950	B0BC7R500001	DIODE	[M]
D2951	B0ADCJ000020	DIODE	[M]
D2952	B0JCAE000001	DIODE	[M]
D3901	MA2J72800L	DIODE	[M]
D5010	B0ACCK000005	DIODE	[M]
D5012	B0ACCE000003	DIODE	[M]
D5013	B0ACCE000003	DIODE	[M]
D5031	B0BC3R400001	DIODE	[M]
D5041	B0ACCK000005	DIODE	[M]
D5701	B0FBAR000018	DIODE	[M] ⚠
D5702	B0ZAZ0000052	DIODE	[M]
D5703	B0BC02900004	DIODE	[M]
D5704	B0JAME000029	DIODE	[M]
D5705	B0EAMM000057	DIODE	[M]
D5706	B0EAMM000057	DIODE	[M]
D5707	B0BC035A0007	DIODE	[M]
D5708	B0BC01700015	DIODE	[M]
D5709	B0ACCK000005	DIODE	[M]
D5710	B0EAMM000057	DIODE	[M]
D5711	B0HBSM000043	DIODE	[M]
D5713	B0BC4R0A0006	DIODE	[M]
D5716	B0HBSM000043	DIODE	[M]
D5717	B0HBSM000043	DIODE	[M]
D5718	B0HFRJ000012	DIODE	[M]
D5721	B0EAMM000057	DIODE	[M]
D5723	B0EAMM000057	DIODE	[M]
D5724	B0BC3R700004	DIODE	[M]
D5725	B0BC7R500001	DIODE	[M]
D5726	B0BC7R500001	DIODE	[M]
D5740	B0BC01200019	DIODE	[M]
D5743	B0ACCK000005	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D5744	B0ACCK000005	DIODE	[M]
D5745	B0EAKM000117	DIODE	[M]
D5746	B0BC5R600003	DIODE	[M]
D5750	B0ECKM000016	DIODE	[M]
D5751	B0ECKM000016	DIODE	[M]
D5752	B0BC5R000009	DIODE	[M]
D5753	B0ACCK000005	DIODE	[M]
D5754	B0ACCK000005	DIODE	[M]
D5771	B0BC01200019	DIODE	[M]
D5772	B0ACCK000005	DIODE	[M]
D5773	B0BC6R700006	DIODE	[M]
D5800	B0EAMM000057	DIODE	[M]
D5903	MAZ82200ML	DIODE	[M]
D6901	B3ABA0000397	DIODE	[M]
D6902	B3ABA0000397	DIODE	[M]
D6903	B3ABA0000397	DIODE	[M]
D6904	B3ABA0000397	DIODE	[M]
D6905	B3ABA0000397	DIODE	[M]
D6906	B3ABA0000397	DIODE	[M]
D6907	B3AEA0000058	DIODE	[M]
D6910	B0BC2R4A0006	DIODE	[M]
D8211	MA2J11100L	DIODE	[M]
D8571	MA2J72800L	DIODE	[M]
DZ5701	ERZV10V511CS	ZENER	[M] ⚠
		CHIP INDUCTORS	
LB3701	J0JHC0000045	CHIP INDUCTOR	[M]
LB3702	J0JCC0000119	CHIP INDUCTOR	[M]
LB3703	J0JHC0000045	CHIP INDUCTOR	[M]
LB3704	J0JCC0000119	CHIP INDUCTOR	[M]
LB3901	J0JHC0000045	CHIP INDUCTOR	[M]
LB3902	J0JHC0000045	CHIP INDUCTOR	[M]
LB3903	J0JCC0000119	CHIP INDUCTOR	[M]
LB3904	J0JCC0000119	CHIP INDUCTOR	[M]
LB3905	J0JCC0000119	CHIP INDUCTOR	[M]
LB3906	J0JCC0000119	CHIP INDUCTOR	[M]
LB5071	J0JKB0000020	EMI BEAD CORE	[M]
LB5072	J0JKB0000020	EMI BEAD CORE	[M]
LB8001	J0JHC0000045	CHIP INDUCTOR	[M]
LB8011	J0JHC0000045	CHIP INDUCTOR	[M]
LB8257	ERJ3GEY0R00V	CHIP RESISTOR	[M]
LB8258	ERJ3GEY0R00V	CHIP RESISTOR	[M]
LB8259	ERJ3GEY0R00V	CHIP RESISTOR	[M]
LB8260	ERJ3GEY0R00V	CHIP RESISTOR	[M]
LB8301	J0JBC0000042	CHIP INDUCTOR	[M]
LB8302	J0JBC0000042	CHIP INDUCTOR	[M]
LB8303	J0JBC0000042	CHIP INDUCTOR	[M]
LB8304	J0JBC0000042	CHIP INDUCTOR	[M]
LB8305	J0JBC0000042	CHIP INDUCTOR	[M]
LB8401	J0JBC0000042	CHIP INDUCTOR	[M]
LB8421	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8422	ERJ2GE0R00X	CHIP RESISTOR	[M]

[illegible]	ERJ2GE0R00X	CHIP RESISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB8423	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8424	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8425	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8426	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8427	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8428	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8429	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8431	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8491	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8530	J0JHC0000045	CHIP INDUCTOR	[M]
LB8531	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8551	J0JBC0000042	CHIP INDUCTOR	[M]
LB8561	J0JBC0000042	CHIP INDUCTOR	[M]
LB8571	J0JBC0000042	CHIP INDUCTOR	[M]
LB8690	J0JBC0000044	CHIP INDUCTOR	[M]
LB8691	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8692	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8693	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8701	J0JBC0000044	CHIP INDUCTOR	[M]
LB8702	J0JBC0000044	CHIP INDUCTOR	[M]
		VARIABLE RESISTORS	
VR6800	EVEKE2F3024M	VOLUME JOG	[M]
		SWITCHES	
S6801	EVQ21405R	SW PLAY	[M]
S6802	EVQ21405R	SW REV	[M]
S6803	EVQ21405R	SW FWD	[M]
S6804	EVQ21405R	SW STOP	[M]
S6805	EVQ21405R	SW DISC EX	[M]
S6806	EVQ21405R	SW SKIP	[M]
S6808	EVQ21405R	SW OPEN/CLOSE	[M]
S6900	EVQ21405R	SW POWER	[M]
S6901	EVQ21405R	SW PARTY MODE	[M]
S6902	EVQ21405R	SW DISC 1	[M]
S6903	EVQ21405R	SW DISC 2	[M]
S6904	EVQ21405R	SW DISC 3	[M]
S6905	EVQ21405R	SW DISC 4	[M]
S6906	EVQ21405R	SW DISC 5	[M]
S6907	EVQ21405R	SW SELECTOR INPUT	[M]
S9001	K0L1BA000086	LOAD SWITCH	[M]
		CONNECTORS	
CN2001	K1MY50AA0029	50P CONNECTOR	[M]
CN2002	K1KA10AA0031	10P CONNECTOR	[M]
CN2003	K1MP11A00004	11P CONNECTOR	[M]
CN2005	K1MN11AA0003	11P CONNECTOR	[M]
CN2007	K1MN30BA0005	30P CONNECTOR	[M]
CN2011	K1MN17BA0005	17P CONNECTOR	[M]
CN2012	K1MN06BA0004	6P CONNECTOR	[M]
CN2013	K1KA03AA0193	3P CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CN5050	K1MN17BA0005	17P CONNECTOR	[M]
CN5701	K1KA13BA0062	13P CONNECTOR	[M]
CN5702	K1MN11AA0003	11P CONNECTOR	[M]
CN5704	K1KA03AA0301	3P CONNECTOR	[M]
CN5705	K1MN09B00038	9P CONNECTOR	[M]
CN5706	K1KA14AA0031	14P CONNECTOR	[M]
CN5707	K1MN19B00072	19P CONNECTOR	[M]
CN5708	K1MN30AA0004	30P CONNECTOR	[M]
CN5709	K1KA14AA0031	14P CONNECTOR	[M]
CN5710	K1KB06B00038	6P CONNECTOR	[M]
CN5711	K1KA06AA0031	6P CONNECTOR	[M]
CN5712	K1KB14B00026	14P CONNECTOR	[M]
CN5713	K1KB14B00026	14P CONNECTOR	[M]
CN5714	K1KA03AA0301	3P CONNECTOR	[M]
CN6901	K1MN09B00038	9P CONNECTOR	[M]
CN6902	K1MN19AA0004	19P CONNECTOR	[M]
CN9003	K1MY11BA0021	11P CONNECTOR	[M]
CN9102	K1MY11BA0021	11P CONNECTOR	[M]
FP3902	K1MN06BA0148	6P CONNECTOR	[M]
FP8101	K1MN50BA0173	50P CONNECTOR	[M]
FP8251	K1MN06AA0046	6P CONNECTOR	[M]
FP8531	K1MN26AA0041	26P CONNECTOR	[M]
IC2901	K1KA03AA0301	3P CONNECTOR	[M]
IC2902	K1KA03AA0301	3P CONNECTOR	[M]
		THERMISTOR	
TH5701	D4CAA2R20001	THERMISTOR	[M] ⚠
TH5702	D4CC11040013	THERMISTOR	[M] ⚠
		COILS & TRANSFORMERS	
L2001	J0JBC0000015	CHIP INDUCTOR	[M]
L2002	J0JBC0000015	CHIP INDUCTOR	[M]
L2003	J0JBC0000015	CHIP INDUCTOR	[M]
L2008	G0C3R3JA0027	COIL	[M]
L2009	G0C220JA0055	COIL	[M]
L2101	J0JBC0000015	CHIP INDUCTOR	[M]
L2102	J0JBC0000015	CHIP INDUCTOR	[M]
L2201	J0JBC0000015	CHIP INDUCTOR	[M]
L2202	J0JBC0000015	CHIP INDUCTOR	[M]
L2802	J0JBC0000015	CHIP INDUCTOR	[M]
L2803	J0JBC0000015	CHIP INDUCTOR	[M]
L2804	J0JBC0000015	CHIP INDUCTOR	[M]
L2805	J0JBC0000015	CHIP INDUCTOR	[M]
L2806	J0JBC0000015	CHIP INDUCTOR	[M]
L2807	J0JBC0000015	CHIP INDUCTOR	[M]
L2902	G0A101ZA0028	COIL	[M]
L2903	G0A200D00002	COIL	[M]
L2905	G0A200D00002	COIL	[M]
L2906	G0A200D00002	COIL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L2908	G0A200D00002	COIL	[M]
L2909	G0A200D00002	COIL	[M]
L2910	G0A200D00002	COIL	[M]
L2912	G0A200D00002	COIL	[M]
L3901	G1C100K00019	CHIP COIL	[M]
L3902	G1C100K00019	CHIP COIL	[M]
L3903	J0MAB0000170	FILTER	[M]
L3904	J0MAB0000170	FILTER	[M]
L3905	J0MAB0000170	FILTER	[M]
L3906	J0MAB0000170	FILTER	[M]
L5021	ELJPC220KFB	COIL	[M]
L5023	ELJPC220KFB	COIL	[M]
L5100	G0B9R5K00001	COIL	[M]
L5105	ETQA15A150T	COIL	[M]
L5200	G0B9R5K00001	COIL	[M]
L5207	ETQA15A150T	COIL	[M]
L5300	G0B9R5K00001	COIL	[M]
L5309	ETQA15A150T	COIL	[M]
L5400	G0B9R5K00001	COIL	[M]
L5500	G0B9R5K00001	COIL	[M]
L5503	ETQA17A150T	COIL	[M]
L5600	G0B9R5K00001	COIL	[M]
L5601	ETQA17A150T	COIL	[M]
L5701	J0MBA0000013	AC LINE FILTER	[M] ⚠
L5703	ELF22V035B	COIL	[M] ⚠
L5704	J0JKB0000020	EMI BEAD CORE	[M]
L5705	J0JBC0000019	CHIP INDUCTOR	[M]
L5750	J0JBC0000015	CHIP INDUCTOR	[M]
L5751	J0JKB0000020	EMI BEAD CORE	[M]
L5752	J0JBC0000015	CHIP INDUCTOR	[M]
L5753	J0JBC0000015	CHIP INDUCTOR	[M]
L6101	J0JBC0000019	CHIP INDUCTOR	[M]
L6102	G0C330KA0065	COIL	[M]
L6201	J0JBC0000019	CHIP INDUCTOR	[M]
L6202	G0C330KA0065	COIL	[M]
L6801	J0JBC0000019	CHIP INDUCTOR	[M]
L6903	J0JBC0000041	CHIP INDUCTOR	[M]
L6904	J0JBC0000019	CHIP INDUCTOR	[M]
L6905	J0JBC0000019	CHIP INDUCTOR	[M]
L8201	G1C100K00019	CHIP COIL	[M]
L8301	G1C100K00019	CHIP COIL	[M]
L8302	G1C100K00019	CHIP COIL	[M]
L8501	G1C100K00019	CHIP COIL	[M]
L8550	G1C100KA0055	CHIP INDUCTOR	[M]
T5701	ETS42BJ1D4AD	MAIN TRANSFORMER	[M] ⚠
T5721	ETS19AB216AG	SUB TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z6900	B3MAZ0000023	R/CONTROL SENSOR	[M]
VA3901	EZJZ0V80008B	VARISTOR	[M]

[illegible]	[illegible]	VARISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
VA3902	EZJZ0V80008B	VARISTOR	[M]
VA3903	EZJZ0V80008B	VARISTOR	[M]
VA3904	EZJZ0V80008B	VARISTOR	[M]
VA3905	EZJZ0V80008B	VARISTOR	[M]
VA3906	EZJZ0V80008B	VARISTOR	[M]
VA3907	EZJZ0V80008B	VARISTOR	[M]
VA3908	EZJZ0V80008B	VARISTOR	[M]
VA3910	EZJZ0V800AA	VARISTOR	[M]
VA3911	EZJZ0V800AA	VARISTOR	[M]
VA3912	EZJZ0V800AA	VARISTOR	[M]
VA3913	EZJZ0V800AA	VARISTOR	[M]
		OSCILLATORS	
X2001	H2D800400009	CRYSTAL	[M]
X5010	H2A375300003	CERAMIC RESISTOR	[M]
X5011	H2A415300001	CERAMIC RESISTOR	[M]
X8621	H0J270500085	CRYSTAL	[M]
		DISPLAY TUBE	
FL6901	A2BD00000160	FL DISPLAY	[M]
FL8101	F1H0J1050018	INDUCTOR	[M]
FL8102	F1H0J1050018	INDUCTOR	[M]
FL8103	F1H0J1050018	INDUCTOR	[M]
FL8104	F1J1E1040022	INDUCTOR	[M]
FL8421	F1H0J1050018	INDUCTOR	[M]
		FUSE/ FUSE PROTECTOR	
F1	K5D802APA008	FUSE	[M] ⚠
FP2000	K5G202AA0002	FUSE PROTECTOR	[M] ⚠
		FUSE HOLDERS	
ZA5701	EYF52BCY	FUSE HOLDER	[M]
ZA5702	EYF52BCY	FUSE HOLDER	[M]
		HOLDERS	
H2010	K1YZ13000001	13P HOLDER	[M]
H2902	RJS1A5506	6P WIRE HOLDER	[M]
H6901	REXX0518	3P MUSIC PORT WIRE	[M]
		JACKS	
JK2001	K2HA208B0001	JK COMBO	[M]
JK5400	K4AC12B00003	JK SPEAKER	[M]
JK6801	K2HC103A0024	JK SMALL SIGN	[M]
JK6802	K2HC1YYA0005	JUMPER WIRE	[M]
P3901	K1FY119H0001	CONNECTOR	[M]
P5701	K2AB2B000010	JK AC INLET	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
		EARTH TERMINALS	
ZJ5701	K9ZZ00001279	EARTH TERMINAL	[M]
ZJ5702	K9ZZ00001279	EARTH TERMINAL	[M]
		PACKING MATERIALS	
P1	RPGX1543	PACKING CASE	[M]P
P1	RPGX1544	PACKING CASE	[M]PC
P2	RPNX0358	POLYFOAM	[M]
P3	RPFX0058-1J	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	EUR7662Y40	REMOTE CONTROL	[M]
A1-1	UR76EC5903A	R/C BATTERY COVER	[M]
A2	K2CB2CB00018	AC CORD	[M] ⚠
A3	RQT8582-1P	O/I BOOK (EN)	[M]P
A3	RQT8583-1C	O/I BOOK (CF)	[M]PC
A4	RSA0007-L	FM ANTENNA	[M]
A5	N1DAAAA00002	AM LOOP ANTENNA	[M]
A6	K2KA2BA00001	VIDEO CABLE	[M]
A7	REEX0449B-1L	SPEAKER CORD	[M]
A8	RHD50015	SCREW	[M]
A9	RQCA0968	SPEAKER LABEL	[M]
A11	RMAX0093-S	SLIDE PLATE	[M]
		RESISTORS	
R2001	ERJ3GEYJ331V	330 1/16W	[M]
R2002	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2003	ERJ3GEYJ103V	10K 1/16W	[M]
R2004	ERJ3GEYJ331V	330 1/16W	[M]
R2005	ERJ3GEYJ331V	330 1/16W	[M]
R2006	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2012	ERJ3GEYJ101V	100 1/16W	[M]
R2013	ERJ3GEYJ101V	100 1/16W	[M]
R2014	ERJ3GEYJ221V	220 1/16W	[M]
R2015	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2016	ERJ3GEYJ473V	47K 1/16W	[M]
R2017	ERJ3GEYJ103V	10K 1/16W	[M]
R2018	ERJ3GEYJ103V	10K 1/16W	[M]
R2019	ERJ3GEYJ103V	10K 1/16W	[M]
R2020	ERJ3GEYJ103V	10K 1/16W	[M]
R2021	ERJ3GEYJ103V	10K 1/16W	[M]
R2022	ERJ3GEYJ821V	820 1/16W	[M]
R2023	ERJ3GEY0R00V	0 1/16W	[M]
R2024	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2025	ERJ3GEYJ221V	220 1/16W	[M]
R2026	ERJ3GEYJ221V	220 1/16W	[M]
R2027	ERJ3GEYJ101V	100 1/16W	[M]
R2028	ERJ3GEYJ101V	100 1/16W	[M]
R2029	ERJ3GEYJ101V	100 1/16W	[M]
R2030	ERJ3GEYJ101V	100 1/16W	[M]

[illegible]	[illegible]	[illegible]	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2031	ERJ3GEYJ101V	100 1/16W	[M]
R2032	ERJ3GEYJ101V	100 1/16W	[M]
R2033	ERJ3GEYJ102V	1K 1/16W	[M]
R2034	ERJ3GEYJ221V	220 1/16W	[M]
R2035	ERJ3GEYJ221V	220 1/16W	[M]
R2036	ERJ3GEYJ221V	220 1/16W	[M]
R2037	ERJ3GEYJ221V	220 1/16W	[M]
R2038	ERJ3GEYJ221V	220 1/16W	[M]
R2039	ERJ3GEYJ223V	22K 1/16W	[M]
R2040	ERJ3GEYJ223V	22K 1/16W	[M]
R2041	ERJ3GEYJ223V	22K 1/16W	[M]
R2042	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2043	ERJ3GEYJ104V	100K 1/16W	[M]
R2044	ERJ3GEYJ221V	220 1/16W	[M]
R2045	ERJ3GEYJ221V	220 1/16W	[M]
R2048	ERJ3GEY0R00V	0 1/16W	[M]
R2049	ERJ3GEY0R00V	0 1/16W	[M]
R2051	ERJ3GEYJ101V	100 1/16W	[M]
R2052	ERJ3GEYJ221V	220 1/16W	[M]
R2053	ERJ3GEYJ221V	220 1/16W	[M]
R2054	ERJ3GEYJ221V	220 1/16W	[M]
R2055	ERJ3GEYJ221V	220 1/16W	[M]
R2057	ERJ3GEYJ221V	220 1/16W	[M]
R2058	ERJ3GEYJ221V	220 1/16W	[M]
R2059	ERJ3GEYJ221V	220 1/16W	[M]
R2060	ERJ3GEYJ221V	220 1/16W	[M]
R2061	ERJ3GEYJ473V	47K 1/16W	[M]
R2062	ERJ3GEYJ221V	220 1/16W	[M]
R2063	ERJ3GEYJ221V	220 1/16W	[M]
R2064	ERJ3GEYJ103V	10K 1/16W	[M]
R2065	ERJ3GEYJ103V	10K 1/16W	[M]
R2066	ERJ3GEYJ104V	100K 1/16W	[M]
R2067	ERJ3GEYJ473V	47K 1/16W	[M]
R2068	ERJ3GEYJ563V	56K 1/16W	[M]
R2069	ERJ3GEYJ473V	47K 1/16W	[M]
R2070	ERJ3GEYJ473V	47K 1/16W	[M]
R2071	ERJ3GEYJ563V	56K 1/16W	[M]
R2073	ERJ3GEYJ473V	47K 1/16W	[M]
R2077	ERJ3GEYJ221V	220 1/16W	[M]
R2078	ERJ3GEYJ221V	220 1/16W	[M]
R2079	ERJ3GEYJ221V	220 1/16W	[M]
R2080	ERJ3GEYJ221V	220 1/16W	[M]
R2081	ERJ3GEYJ221V	220 1/16W	[M]
R2082	ERJ3GEYJ221V	220 1/16W	[M]
R2084	ERJ3GEYJ473V	47K 1/16W	[M]
R2085	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2086	ERJ3GEYJ223V	22K 1/16W	[M]
R2087	ERJ3GEYJ223V	22K 1/16W	[M]
R2088	ERJ3GEYJ221V	220 1/16W	[M]
R2089	ERJ3GEYJ221V	220 1/16W	[M]
R2090	ERJ3GEYJ103V	10K 1/16W	[M]
R2096	ERJ3GEYJ473V	47K 1/16W	[M]
R2097	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2098	ERJ3GEYJ225V	2.2M 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2099	ERJ3GEYJ104V	100K 1/16W	[M]
R2101	ERJ3GEYJ103V	10K 1/16W	[M]
R2111	ERJ3GEYJ103V	10K 1/16W	[M]
R2112	ERJ3GEYJ223V	22K 1/16W	[M]
R2113	ERJ3GEY0R00V	0 1/16W	[M]
R2114	ERJ3GEYJ153V	15K 1/16W	[M]
R2115	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2160	ERJ3GEYJ102V	1K 1/16W	[M]
R2161	ERJ3GEYJ473V	47K 1/16W	[M]
R2164	ERJ3GEYJ103V	10K 1/16W	[M]
R2165	ERJ3GEYJ103V	10K 1/16W	[M]
R2166	ERJ3GEYJ103V	10K 1/16W	[M]
R2167	ERJ3GEYJ103V	10K 1/16W	[M]
R2168	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2169	ERJ3GEYJ104V	100K 1/16W	[M]
R2170	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2171	ERJ3GEYJ273V	27K 1/16W	[M]
R2172	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2173	ERJ3GEYJ473V	47K 1/16W	[M]
R2175	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2176	ERJ3GEYJ683V	68K 1/16W	[M]
R2177	ERJ3GEYJ220V	22 1/16W	[M]
R2178	ERJ3GEYJ220V	22 1/16W	[M]
R2179	ERJ3GEYJ220V	22 1/16W	[M]
R2180	ERJ3GEYJ220V	22 1/16W	[M]
R2181	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2185	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2188	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2189	ERJ3GEYJ102V	1K 1/16W	[M]
R2191	ERJ3GEYJ223V	22K 1/16W	[M]
R2193	ERJ3GEYJ100V	10 1/16W	[M]
R2194	ERJ3GEYJ273V	27K 1/16W	[M]
R2195	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2196	ERJ3GEYJ333V	33K 1/16W	[M]
R2197	ERJ3GEYJ683V	68K 1/16W	[M]
R2198	ERJ3GEY0R00V	0 1/16W	[M]
R2201	ERJ3GEYJ103V	10K 1/16W	[M]
R2211	ERJ3GEYJ103V	10K 1/16W	[M]
R2212	ERJ3GEYJ223V	22K 1/16W	[M]
R2214	ERJ3GEYJ153V	15K 1/16W	[M]
R2215	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2218	ERJ3GEY0R00V	0 1/16W	[M]
R2260	ERJ3GEYJ102V	1K 1/16W	[M]
R2261	ERJ3GEYJ473V	47K 1/16W	[M]
R2264	ERJ3GEYJ103V	10K 1/16W	[M]
R2265	ERJ3GEYJ103V	10K 1/16W	[M]
R2266	ERJ3GEYJ103V	10K 1/16W	[M]
R2267	ERJ3GEYJ103V	10K 1/16W	[M]
R2268	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2269	ERJ3GEYJ104V	100K 1/16W	[M]
R2270	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2271	ERJ3GEYJ563V	56K 1/16W	[M]
R2273	ERJ3GEYJ473V	47K 1/16W	[M]
R2275	ERJ3GEYJ562V	5.6K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2276	ERJ3GEYJ683V	68K 1/16W	[M]
R2277	ERJ3GEYJ220V	22 1/16W	[M]
R2278	ERJ3GEYJ220V	22 1/16W	[M]
R2279	ERJ3GEYJ220V	22 1/16W	[M]
R2280	ERJ3GEYJ220V	22 1/16W	[M]
R2281	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2285	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2288	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2289	ERJ3GEYJ103V	10K 1/16W	[M]
R2291	ERJ3GEYJ223V	22K 1/16W	[M]
R2293	ERJ3GEYJ100V	10 1/16W	[M]
R2294	ERJ3GEYJ273V	27K 1/16W	[M]
R2295	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2296	ERJ3GEYJ333V	33K 1/16W	[M]
R2297	ERJ3GEYJ683V	68K 1/16W	[M]
R2298	ERJ3GEY0R00V	0 1/16W	[M]
R2300	ERJ3GEYJ123V	12K 1/16W	[M]
R2301	ERJ3GEYJ683V	68K 1/16W	[M]
R2302	ERJ3GEYJ183V	18K 1/16W	[M]
R2303	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2304	ERJ3GEYJ123V	12K 1/16W	[M]
R2312	ERJ3GEYJ153V	15K 1/16W	[M]
R2313	ERJ3GEYJ223V	22K 1/16W	[M]
R2314	ERJ3GEYJ103V	10K 1/16W	[M]
R2315	ERJ3GEYJ103V	10K 1/16W	[M]
R2317	ERJ3GEYJ223V	22K 1/16W	[M]
R2319	ERJ3GEYJ473V	47K 1/16W	[M]
R2320	ERJ3GEYJ473V	47K 1/16W	[M]
R2321	ERJ3GEYJ273V	27K 1/16W	[M]
R2322	ERJ3GEYJ273V	27K 1/16W	[M]
R2323	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2324	ERJ3GEYJ223V	22K 1/16W	[M]
R2325	ERJ3GEYJ223V	22K 1/16W	[M]
R2326	ERJ3GEYJ123V	12K 1/16W	[M]
R2327	ERJ3GEYJ273V	27K 1/16W	[M]
R2328	ERJ3GEYJ563V	56K 1/16W	[M]
R2332	ERJ3GEYJ223V	22K 1/16W	[M]
R2333	ERJ3GEYJ333V	33K 1/16W	[M]
R2334	ERJ3GEYJ273V	27K 1/16W	[M]
R2335	ERJ3GEYJ223V	22K 1/16W	[M]
R2336	ERJ3GEYJ103V	10K 1/16W	[M]
R2338	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2339	ERJ3GEYJ333V	33K 1/16W	[M]
R2341	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2342	ERJ3GEYJ102V	1K 1/16W	[M]
R2343	ERJ3GEY0R00V	0 1/16W	[M]
R2344	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2400	ERJ3GEYJ123V	12K 1/16W	[M]
R2401	ERJ3GEYJ683V	68K 1/16W	[M]
R2402	ERJ3GEYJ183V	18K 1/16W	[M]
R2403	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2404	ERJ3GEYJ123V	12K 1/16W	[M]
R2412	ERJ3GEYJ153V	15K 1/16W	[M]
R2413	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2414	ERJ3GEYJ103V	10K 1/16W	[M]
R2415	ERJ3GEYJ103V	10K 1/16W	[M]
R2417	ERJ3GEYJ223V	22K 1/16W	[M]
R2419	ERJ3GEYJ223V	22K 1/16W	[M]
R2420	ERJ3GEYJ223V	22K 1/16W	[M]
R2421	ERJ3GEYJ223V	22K 1/16W	[M]
R2422	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2423	ERJ3GEYJ123V	12K 1/16W	[M]
R2424	ERJ3GEYJ223V	22K 1/16W	[M]
R2425	ERJ3GEYJ223V	22K 1/16W	[M]
R2426	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2432	ERJ3GEYJ223V	22K 1/16W	[M]
R2433	ERJ3GEYJ333V	33K 1/16W	[M]
R2434	ERJ3GEYJ273V	27K 1/16W	[M]
R2435	ERJ3GEYJ223V	22K 1/16W	[M]
R2436	ERJ3GEYJ103V	10K 1/16W	[M]
R2439	ERJ3GEYJ333V	33K 1/16W	[M]
R2441	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2443	ERJ3GEY0R00V	0 1/16W	[M]
R2444	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2500	ERJ3GEYJ123V	12K 1/16W	[M]
R2501	ERJ3GEYJ223V	22K 1/16W	[M]
R2502	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2503	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2510	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2511	ERJ3GEYJ103V	10K 1/16W	[M]
R2512	ERJ3GEYJ273V	27K 1/16W	[M]
R2513	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2600	ERJ3GEYJ101V	100 1/16W	[M]
R2601	ERJ3GEYJ393V	39K 1/16W	[M]
R2602	ERJ3GEYJ103V	10K 1/16W	[M]
R2603	ERJ3GEYJ103V	10K 1/16W	[M]
R2604	ERJ3GEYJ103V	10K 1/16W	[M]
R2605	ERJ3GEYJ123V	12K 1/16W	[M]
R2606	ERJ3GEYJ103V	10K 1/16W	[M]
R2607	ERJ3GEYJ103V	10K 1/16W	[M]
R2608	ERJ3GEYJ563V	56K 1/16W	[M]
R2609	ERJ3GEYJ103V	10K 1/16W	[M]
R2610	ERJ3GEYJ563V	56K 1/16W	[M]
R2611	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2612	ERJ3GEYJ683V	68K 1/16W	[M]
R2617	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2619	ERJ3GEYJ123V	12K 1/16W	[M]
R2620	ERJ3GEYJ104V	100K 1/16W	[M]
R2621	ERJ3GEYJ393V	39K 1/16W	[M]
R2622	ERJ3GEY0R00V	0 1/16W	[M]
R2623	ERJ3GEYJ563V	56K 1/16W	[M]
R2624	ERJ3GEYJ273V	27K 1/16W	[M]
R2625	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2626	ERJ3GEYJ683V	68K 1/16W	[M]
R2627	ERJ3GEYJ683V	68K 1/16W	[M]
R2628	ERJ3GEYJ103V	10K 1/16W	[M]
R2629	ERJ3GEYJ103V	10K 1/16W	[M]
R2630	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2631	ERJ3GEYJ393V	39K 1/16W	[M]
R2632	ERJ3GEYJ223V	22K 1/16W	[M]
R2633	ERJ3GEYJ101V	100 1/16W	[M]
R2634	ERJ3GEYJ101V	100 1/16W	[M]
R2635	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2809	ERJ3GEYJ750V	75 1/16W	[M]
R2812	ERJ3GEYJ750V	75 1/16W	[M]
R2813	ERJ3GEYJ750V	75 1/16W	[M]
R2816	ERJ3GEYJ750V	75 1/16W	[M]
R2817	ERJ3GEYJ750V	75 1/16W	[M]
R2818	ERJ3GEYJ750V	75 1/16W	[M]
R2819	ERJ3GEYJ102V	1K 1/16W	[M]
R2904	ERJ3GEYJ471V	470 1/16W	[M]
R2905	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2906	ERG2SJ471E	470 2W	[M]
R2907	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2908	ERJ3GEYJ561V	560 1/16W	[M]
R2913	ERG2SJ471E	470 2W	[M]
R2914	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2915	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2918	ERJ3GEYJ103V	10K 1/16W	[M]
R2919	ERJ3GEYJ102V	1K 1/16W	[M]
R2920	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2921	ERJ3GEYJ471V	470 1/16W	[M]
R2922	ERJ3GEYJ393V	39K 1/16W	[M]
R2923	ERJ3GEYJ153V	15K 1/16W	[M]
R2925	ERJ2GEJ103X	10K 2W	[M]
R2925	ERX2SJ1R5E	1.5 2W	[M]
R2927	ERX2SJ1R5E	1.5 2W	[M]
R2930	ERJ3GEYJ333V	33K 1/16W	[M]
R2933	ERJ3GEYJ151V	150 1/16W	[M]
R2934	ERJ3GEYJ102V	1K 1/16W	[M]
R2935	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2936	ERJ3GEYJ181V	180 1/16W	[M]
R2937	ERG2SJ471E	470 2W	[M]
R2938	ERG2SJ471E	470 2W	[M]
R2939	ERJ3GEYJ393V	39K 1/16W	[M]
R2941	ERJ3GEYJ223V	22K 1/16W	[M]
R2942	ERJ3GEY0R00V	0 1/16W	[M]
R2943	ERJ3GEY0R00V	0 1/16W	[M]
R2945	ERJ3GEYJ104V	100K 1/16W	[M]
R2946	ERJ3GEYJ330V	33 1/16W	[M]
R2947	ERJ3GEYJ104V	100K 1/16W	[M]
R2950	ERJ3GEYJ221V	220 1/16W	[M]
R2951	ERJ3GEYJ221V	220 1/16W	[M]
R2952	ERJ3GEYJ221V	220 1/16W	[M]
R2953	ERJ3GEYJ221V	220 1/16W	[M]
R2955	ERJ3GEYJ221V	220 1/16W	[M]
R2960	ERJ3GEYJ104V	100K 1/16W	[M]
R2961	ERJ3GEYJ103V	10K 1/16W	[M]
R2962	ERJ3GEYJ473V	47K 1/16W	[M]
R2963	ERJ3GEYJ103V	10K 1/16W	[M]
R2964	ERJ3GEYJ103V	10K 1/16W	[M]
R2965	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2966	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2967	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2968	ERJ3GEYJ104V	100K 1/16W	[M]
R2969	ERJ3GEYJ103V	10K 1/16W	[M]
R2970	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2971	ERJ3GEYJ221V	220 1/16W	[M]
R2972	ERJ3GEYJ221V	220 1/16W	[M]
R2973	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2974	ERJ3GEYJ821V	820 1/16W	[M]
R2975	ERJ3GEYJ103V	10K 1/16W	[M]
R2976	ERJ3GEYJ103V	10K 1/16W	[M]
R2977	ERJ3GEYJ103V	10K 1/16W	[M]
R2978	ERJ3GEYJ103V	10K 1/16W	[M]
R2979	ERJ3GEYJ103V	10K 1/16W	[M]
R2980	ERJ3GEYJ103V	10K 1/16W	[M]
R2985	ERJ3GEYJ221V	220 1/16W	[M]
R2986	ERJ3GEYJ221V	220 1/16W	[M]
R2987	ERJ3GEYJ221V	220 1/16W	[M]
R2990	D0C18R2JA020	8.2 1W	[M]
R2991	ERJ3GEYJ473V	47K 1/16W	[M]
R2993	ERJ3GEY0R00V	0 1/16W	[M]
R3780	ERJ2GEJ152X	1.5K 2W	[M]
R3781	ERJ2GEJ152X	1.5K 2W	[M]
R3901	ERJ2GEJ511X	510 2W	[M]
R3902	ERJ2GEJ103X	10K 2W	[M]
R3903	ERJ2GEJ103X	10K 2W	[M]
R3904	ERJ2GEJ472X	4.7K 2W	[M]
R3905	ERJ2GEJ202X	2K 2W	[M]
R3906	ERJ2GEJ472X	4.7K 2W	[M]
R3907	ERJ2GEJ222X	2.2K 2W	[M]
R3911	ERJ2GEJ102X	1K 2W	[M]
R3912	ERJ2GEJ472X	4.7K 2W	[M]
R3921	ERJ2GE0R00X	0 2W	[M]
R3924	ERJ2GE0R00X	0 2W	[M]
R3941	ERJ2GEJ273X	27K 2W	[M]
R3942	ERJ2GEJ224X	220K 2W	[M]
R3943	ERJ2GEJ104X	100K 2W	[M]
R3944	ERJ2GEJ221X	220 2W	[M]
R3945	ERJ2GEJ103X	10K 2W	[M]
R3946	ERJ2GEJ272X	2.7K 2W	[M]
R3947	ERJ2GEJ103X	10K 2W	[M]
R5011	ERJ3GEYJ103V	10K 1/16W	[M]
R5012	ERJ3GEYJ101V	100 1/16W	[M]
R5013	ERJ3GEYJ105V	1M 1/16W	[M]
R5014	ERJ3GEYJ105V	1M 1/16W	[M]
R5015	ERJ3GEYJ105V	1M 1/16W	[M]
R5021	ERJ3GEYJ104V	100K 1/16W	[M]
R5022	ERJ3GEYJ104V	100K 1/16W	[M]
R5023	ERJ3GEYJ224V	220K 1/16W	[M]
R5037	ERJ3GEYJ473V	47K 1/16W	[M]
R5038	ERJ3GEYJ224V	220K 1/16W	[M]
R5039	ERJ3GEYJ224V	220K 1/16W	[M]
R5040	ERJ3GEY0R00V	0 1/16W	[M]
R5041	ERJM1WSF10MU	1 1/2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5042	ERJM1WSF10MU	1 1/2W	[M]
R5046	ERJ3GEYJ473V	47K 1/16W	[M]
R5047	ERJ3GEYJ103V	10K 1/16W	[M]
R5048	ERJ3GEYJ473V	47K 1/16W	[M]
R5049	ERJ3GEYJ102V	1K 1/16W	[M]
R5050	ERJ3GEYJ223V	22K 1/16W	[M]
R5051	ERJ3GEYJ223V	22K 1/16W	[M]
R5052	ERJ3GEYJ223V	22K 1/16W	[M]
R5053	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5056	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5057	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5059	ERJ3GEYJ103V	10K 1/16W	[M]
R5060	ERJ3GEYJ103V	10K 1/16W	[M]
R5062	ERJ3GEYJ103V	10K 1/16W	[M]
R5063	ERJ3GEYJ103V	10K 1/16W	[M]
R5065	ERJ3GEYJ101V	100 1/16W	[M]
R5066	ERJ3GEYJ101V	100 1/16W	[M]
R5067	ERJ3GEYJ101V	100 1/16W	[M]
R5070	ERJ6GEYJ472V	4.7K 1/10W	[M]
R5071	ERJ3GEY0R00V	0 1/16W	[M]
R5072	ERJ3RBD152V	1.5K 3W	[M]
R5073	ERJ3RBD223V	22K 3W	[M]
R5074	ERJ6GEYJ472V	4.7K 1/10W	[M]
R5076	ERJ8GEY0R00V	0 1/8W	[M]
R5077	ERJ8GEY0R00V	0 1/8W	[M]
R5079	ERJ3GEYJ103V	10K 1/16W	[M]
R5080	ERJ3GEYJ103V	10K 1/16W	[M]
R5081	ERJ3GEYJ823V	82K 1/16W	[M]
R5082	ERJ3GEYJ823V	82K 1/16W	[M]
R5094	ERJ3GEYJ102V	1K 1/16W	[M]
R5099	ERJ3GEYJ473V	47K 1/16W	[M]
R5107	ERJ3GEYJ221V	220 1/16W	[M]
R5109	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5110	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5181	ERJ1TYJ220U	22 1/8W	[M]
R5183	ERJ1TYJ220U	22 1/8W	[M]
R5189	ERJ3GEYJ823V	82K 1/16W	[M]
R5197	ERJ3GEYJ103V	10K 1/16W	[M]
R5208	ERJ3GEYJ221V	220 1/16W	[M]
R5209	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5210	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5282	ERJ1TYJ220U	22 1/8W	[M]
R5284	ERJ1TYJ220U	22 1/8W	[M]
R5290	ERJ3GEYJ154V	150K 1/16W	[M]
R5298	ERJ3GEYJ103V	10K 1/16W	[M]
R5309	ERJ3GEYJ221V	220 1/16W	[M]
R5311	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5386	ERJ1TYJ220U	22 1/8W	[M]
R5391	ERJ3GEYJ683V	68K 1/16W	[M]
R5410	ERJ3GEYJ221V	220 1/16W	[M]
R5411	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5487	ERJ1TYJ220U	22 1/8W	[M]
R5492	ERJ3GEYJ124V	120K 1/16W	[M]
R5493	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5502	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5504	ERJ3GEYJ473V	47K 1/16W	[M]
R5506	ERJ3GEYJ223V	22K 1/16W	[M]
R5514	ERJ8GEY0R00V	0 1/8W	[M]
R5516	ERJ3GEY0R00V	0 1/16W	[M]
R5517	ERG2SJ220E	22 2W	[M]
R5518	ERJ3GEYJ103V	10K 1/16W	[M]
R5519	ERJ8GEYJ822V	8.2K 1/8W	[M]
R5595	ERJ3GEYJ103V	10K 1/16W	[M]
R5601	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5603	ERJ3GEYJ473V	47K 1/16W	[M]
R5605	ERJ3GEYJ223V	22K 1/16W	[M]
R5613	ERJ3GEY0R00V	0 1/16W	[M]
R5615	ERJ3GEY0R00V	0 1/16W	[M]
R5624	ERJ3GEYJ224V	220K 1/16W	[M]
R5625	ERJ3GEYJ104V	100K 1/16W	[M]
R5626	ERJ3GEYJ103V	10K 1/16W	[M]
R5627	ERJ8GEYJ822V	8.2K 1/8W	[M]
R5696	ERJ3GEYJ103V	10K 1/16W	[M]
R5701	ERC12UGK335D	3.3M 1/2W	[M] ⚠
R5702	ERDS1FVJ8R2T	8.2 1/2W	[M]
R5703	ERJ6GEYJ681V	680 1/10W	[M]
R5704	ERX2LJ82MP	0.82 2W	[M]
R5705	ERX2LJ82MP	0.82 2W	[M]
R5706	ERG2SJ333P	33K 2W	[M]
R5707	ERG2SJ333P	33K 2W	[M]
R5708	ERJ6GEYJ332V	3.3K 1/10W	[M]
R5709	ERJ6GEYJ222V	2.2K 1/10W	[M]
R5710	ERJ6GEYJ103V	10K 1/10W	[M]
R5711	ERJ6GEYJ220V	22 1/10W	[M]
R5712	ERJ6GEYJ222V	2.2K 1/10W	[M]
R5713	ERJ3GEYF224V	220K 1/16W	[M]
R5714	ERJ3GEYF562V	5.6K 1/16W	[M]
R5715	ERJ3GEYJ153V	15K 1/16W	[M]
R5716	ERJ3GEYJ181V	180 1/16W	[M]
R5717	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5718	ERJ3GEYJ104V	100K 1/16W	[M]
R5719	ERJ3GEYJ103V	10K 1/16W	[M]
R5720	ERJ3GEYJ103V	10K 1/16W	[M]
R5721	ERJ3GEYJ471V	470 1/16W	[M]
R5722	ERJ3GEYJ103V	10K 1/16W	[M]
R5723	ERJ3GEYF472V	4.7K 1/16W	[M]
R5724	ERJ3GEYF122V	1.2K 1/16W	[M]
R5725	ERJ3GEYF561V	560 1/16W	[M]
R5726	ERJ3GEYJ102V	1K 1/16W	[M]
R5727	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5729	ERJ6GEYJ152V	1.5K 1/10W	[M]
R5730	ERJ3GEYJ823V	82K 1/16W	[M]
R5731	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5732	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5733	ERDS1FVJ182T	1.8K 1/2W	[M]
R5734	ERDS1FVJ182T	1.8K 1/2W	[M]
R5735	ERJ3GEY0R00V	0 1/16W	[M]
R5736	ERDS1FVJ102T	1K 1/2W	[M]

[illegible]	[illegible]	1R 1/2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5737	ERJ3GEYJ100V	10 1/16W	[M]
R5738	ERJ3GEYJ153V	15K 1/16W	[M]
R5739	ERJ3GEYJ103V	10K 1/16W	[M]
R5740	ERJ3GEYF104V	100K 1/16W	[M]
R5741	ERJ3GEYJ102V	1K 1/16W	[M]
R5742	ERJ3GEYJ103V	10K 1/16W	[M]
R5743	ERJ3GEYJ103V	10K 1/16W	[M]
R5744	ERJ3GEYJ153V	15K 1/16W	[M]
R5745	ERJ3GEYJ103V	10K 1/16W	[M]
R5746	ERJ3GEYJ473V	47K 1/16W	[M]
R5747	ERJ3GEYJ103V	10K 1/16W	[M]
R5748	ERJ3GEYJ103V	10K 1/16W	[M]
R5749	ERG2SJ470E	47 2W	[M]
R5750	ERJ3GEYJ331V	330 1/16W	[M]
R5751	ERDS1TJ474	470K 1/2W	[M] ⚠
R5752	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5753	ERJ3GEYJ331V	330 1/16W	[M]
R5755	ERJ3GEYJ103V	10K 1/16W	[M]
R5756	ERJ3GEYJ103V	10K 1/16W	[M]
R5757	ERJ3GEYJ103V	10K 1/16W	[M]
R5758	ERJ3GEYJ335V	3.3M 1/16W	[M]
R5759	ERJ3GEYJ104V	100K 1/16W	[M]
R5760	ERJ3GEYJ103V	10K 1/16W	[M]
R5761	ERG2SJ470E	47 2W	[M]
R5762	ERG2SJ470E	47 2W	[M]
R5763	ERJ3GEYF222V	2.2K 1/16W	[M]
R5764	ERG2SJ470E	47 2W	[M]
R5765	ERJ3GEYF223V	22K 1/16W	[M]
R5766	ERJ3GEYF182V	1.8K 1/16W	[M]
R5768	ERJ3GEYJ103V	10K 1/16W	[M]
R5769	ERJ3GEYJ103V	10K 1/16W	[M]
R5770	ERJ3GEYJ103V	10K 1/16W	[M]
R5771	ERJ6GEYJ100V	10 1/10W	[M]
R5772	ERDS1FVJ4R7T	4.7 1/2W	[M]
R5773	ERG2SJ470E	47 2W	[M]
R5774	ERDS1FVJ4R7T	4.7 1/2W	[M]
R5775	ERJ3GEYJ103V	10K 1/16W	[M]
R5776	ERJ3GEYJ331V	330 1/16W	[M]
R5777	ERJ3GEYJ102V	1K 1/16W	[M]
R5778	ERDS1FVJ4R7T	4.7 1/2W	[M]
R5779	ERJ3GEYJ102V	1K 1/16W	[M]
R5780	ERJ3GEYJ331V	330 1/16W	[M]
R5781	ERJ3GEYJ103V	10K 1/16W	[M]
R5782	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5783	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5784	ERJ8GEYJ394V	390K 1/8W	[M]
R5785	ERJ8GEYJ394V	390K 1/8W	[M]
R5786	ERJ3GEYJ104V	100K 1/16W	[M]
R5787	ERJ3GEYJ681V	680 1/16W	[M]
R5788	ERJ3GEYJ103V	10K 1/16W	[M]
R5789	ERJ3GEYJ103V	10K 1/16W	[M]
R5790	ERJ3GEYJ102V	1K 1/16W	[M]
R5791	ERG2SJ332E	3.3K 2W	[M]
R5792	ERG2SJ332E	3.3K 2W	[M]

[illegible]	[illegible]	[illegible]	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5793	ERJ3GEY0R00V	0 1/16W	[M]
R5794	ERG2SJ332E	3.3K 2W	[M]
R5795	ERG2SJ332E	3.3K 2W	[M]
R5796	ERJ3GEYJ103V	10K 1/16W	[M]
R5797	ERJ3GEYF473V	47K 1/16W	[M]
R5798	D0C18R2JA020	8.2 1W	[M]
R5799	ERJ3GEYJ1R0V	1 1/16W	[M]
R5901	ERJ3GEY0R00V	0 1/16W	[M]
R5902	ERJ3GEY0R00V	0 1/16W	[M]
R5913	ERJ6GEYJ470V	47 1/10W	[M]
R5916	ERJ3GEYJ151V	150 1/16W	[M]
R5917	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5930	ERJ3GEYJ103V	10K 1/16W	[M]
R5931	ERJ3GEYJ103V	10K 1/16W	[M]
R5932	ERJ3GEYJ103V	10K 1/16W	[M]
R5933	ERJ3GEYJ822V	8.2K 1/16W	[M]
R5934	ERJ3GEYJ103V	10K 1/16W	[M]
R6801	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6802	ERJ3GEYJ272V	2.7K 1/16W	[M]
R6803	ERJ3GEYJ122V	1.2K 1/16W	[M]
R6804	ERJ3GEYJ102V	1K 1/16W	[M]
R6805	ERJ3GEYJ102V	1K 1/16W	[M]
R6807	ERJ3GEYJ223V	22K 1/16W	[M]
R6809	ERJ3GEYJ223V	22K 1/16W	[M]
R6810	ERJ3GEYJ682V	6.8K 1/16W	[M]
R6812	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6914	ERJ3GEYJ563V	56K 1/16W	[M]
R6916	ERJ3GEYJ680V	68 1/16W	[M]
R6917	ERJ3GEYJ680V	68 1/16W	[M]
R6918	ERJ3GEYJ223V	22K 1/16W	[M]
R6922	ERJ3GEYJ102V	1K 1/16W	[M]
R6923	ERJ3GEYJ102V	1K 1/16W	[M]
R6924	ERJ3GEYJ122V	1.2K 1/16W	[M]
R6925	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6926	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6927	ERJ3GEYJ680V	68 1/16W	[M]
R6928	ERJ3GEYJ272V	2.7K 1/16W	[M]
R6934	ERJ3GEYJ470V	47 1/16W	[M]
R6935	ERJ3GEYJ100V	10 1/16W	[M]
R6939	ERJ3GEYJ1R0V	1 1/16W	[M]
R6940	ERJ3GEYJ1R0V	1 1/16W	[M]
R6941	ERJ3GEYJ221V	220 1/16W	[M]
R6942	ERJ3GEYJ221V	220 1/16W	[M]
R6943	ERJ3GEYJ221V	220 1/16W	[M]
R6944	ERJ3GEYJ221V	220 1/16W	[M]
R6945	ERJ3GEYJ221V	220 1/16W	[M]
R6946	ERJ3GEYJ221V	220 1/16W	[M]
R6947	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6948	ERJ3GEYJ102V	1K 1/16W	[M]
R6949	ERJ3GEYJ102V	1K 1/16W	[M]
R6950	ERJ3GEYJ473V	47K 1/16W	[M]
R6951	ERJ3GEYJ473V	47K 1/16W	[M]
R6952	ERJ3GEYJ221V	220 1/16W	[M]
R6953	ERJ3GEYJ221V	220 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6954	ERJ3GEYJ221V	220 1/16W	[M]
R6955	ERJ3GEYJ221V	220 1/16W	[M]
R6956	ERJ3GEYJ221V	220 1/16W	[M]
R6957	ERJ3GEYJ221V	220 1/16W	[M]
R6958	ERJ3GEYJ101V	100 1/16W	[M]
R6959	ERJ3GEYJ103V	10K 1/16W	[M]
R6960	ERJ3GEYJ222V	2.2K 1/16W	[M]
R8003	ERJ2GEJ473X	47K 2W	[M]
R8011	ERJ2GEJ220X	22 2W	[M]
R8012	ERJ2GEJ220X	22 2W	[M]
R8013	ERJ2GEJ220X	22 2W	[M]
R8041	ERJ2GEJ330X	33 2W	[M]
R8153	ERJ2RHD621X	620 2W	[M]
R8154	ERJ2RHD102X	1K 2W	[M]
R8211	ERJ2GEJ103X	10K 2W	[M]
R8221	ERJ2GEJ822X	8.2K 2W	[M]
R8225	ERJ2GEJ822X	8.2K 2W	[M]
R8230	ERJ2GEJ222X	2.2K 2W	[M]
R8231	ERJ2GEJ223X	22K 2W	[M]
R8232	ERJ2GEJ752X	7.5K 2W	[M]
R8251	ERJ6GEYJ6R8V	6.8 1/10W	[M]
R8261	ERJ2GEJ823X	82K 2W	[M]
R8262	ERJ2GEJ153X	15K 2W	[M]
R8263	ERJ2GEJ823X	82K 2W	[M]
R8264	ERJ2GEJ153X	15K 2W	[M]
R8311	ERJ2RHD242X	2.4K 2W	[M]
R8312	ERJ2RHD102X	1K 2W	[M]
R8313	ERJ2RHD912X	9.1K 2W	[M]
R8314	ERJ2GE0R00X	0 2W	[M]
R8321	ERJ3RED680V	68 3W	[M]
R8322	ERJ3GEY0R00V	0 1/16W	[M]
R8325	ERJ3RED680V	68 3W	[M]
R8326	ERJ3GEY0R00V	0 1/16W	[M]
R8331	ERJ3RED680V	68 3W	[M]
R8332	ERJ3GEY0R00V	0 1/16W	[M]
R8335	ERJ3RED680V	68 3W	[M]
R8341	ERJ3RED680V	68 3W	[M]
R8401	ERJ2GEJ101X	100 2W	[M]
R8420	ERJ2GEJ222X	2.2K 2W	[M]
R8421	ERJ2GE0R00X	0 2W	[M]
R8531	ERJ2GEJ152X	1.5K 2W	[M]
R8532	ERJ2GEJ222X	2.2K 2W	[M]
R8533	ERJ2GE0R00X	0 2W	[M]
R8541	ERJ2GEJ153X	15K 2W	[M]
R8551	ERJ2GE0R00X	0 2W	[M]
R8552	ERJ2GEJ102X	1K 2W	[M]
R8553	ERJ2GEJ102X	1K 2W	[M]
R8554	ERJ2GEJ680X	68 2W	[M]
R8555	ERJ2GEJ2R2X	2.2 2W	[M]
R8556	ERJ3GEYJ560V	56 1/16W	[M]
R8557	ERJ3GEYJ510V	51 1/16W	[M]
R8558	ERJ2GEJ473X	47K 2W	[M]
R8559	ERJ2GEJ153X	15K 2W	[M]
R8561	ERJ2GE0R00X	0 2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R8562	ERJ2GEJ102X	1K 2W	[M]
R8563	ERJ2GEJ102X	1K 2W	[M]
R8564	ERJ2GEJ220X	22 2W	[M]
R8565	ERJ2GEJ2R2X	2.2 2W	[M]
R8566	ERJ3GEYJ560V	56 1/16W	[M]
R8567	ERJ3GEYJ510V	51 1/16W	[M]
R8568	ERJ2GEJ473X	47K 2W	[M]
R8601	ERJ2GEJ104X	100K 2W	[M]
R8611	ERJ2GEJ101X	100 2W	[M]
R8621	ERJ2GEJ105X	1M 2W	[M]
R8622	ERJ2RHD681X	680 2W	[M]
RX3701	D1H410120001	CHIP RESISTOR	[M]
RX3702	D1H81014A024	CHIP RESISTOR	[M]
RX3703	D1H81014A024	CHIP RESISTOR	[M]
RX3704	D1H81014A024	CHIP RESISTOR	[M]
RX3705	D1H81014A024	CHIP RESISTOR	[M]
RX3706	D1H410120001	CHIP RESISTOR	[M]
RX3707	D1H84714A024	CHIP RESISTOR	[M]
RX3708	D1H84714A024	CHIP RESISTOR	[M]
RX3902	D1H410120001	CHIP RESISTOR	[M]
RX8001	D1H410320002	CHIP RESISTOR	[M]
RX8011	D1H88204A024	CHIP RESISTOR	[M]
RX8012	D1H88204A024	CHIP RESISTOR	[M]
RX8013	D1H88204A024	CHIP RESISTOR	[M]
RX8014	D1H88204A024	CHIP RESISTOR	[M]
RX8015	D1H88204A024	CHIP RESISTOR	[M]
RX8016	D1H88204A024	CHIP RESISTOR	[M]
RX8017	D1H88204A024	CHIP RESISTOR	[M]
RX8018	D1H422020001	CHIP RESISTOR	[M]
RX8019	D1H422020001	CHIP RESISTOR	[M]
RX8020	D1H422020001	CHIP RESISTOR	[M]
RX8031	D1H447220001	CHIP RESISTOR	[M]
RX8032	D1H447220001	CHIP RESISTOR	[M]
RX8111	D1H422320002	CHIP RESISTOR	[M]
RX8401	D1H410120001	CHIP RESISTOR	[M]
RX8402	D1H410120001	CHIP RESISTOR	[M]
RX8403	D1H410120001	CHIP RESISTOR	[M]
RX8531	D1H456020001	CHIP RESISTOR	[M]
RX8532	D1H85604A024	CHIP RESISTOR	[M]
RX8533	D1H456020001	CHIP RESISTOR	[M]
RX8534	D1H456020001	CHIP RESISTOR	[M]
RX8611	D1H447220001	CHIP RESISTOR	[M]
RX8691	D1H410320002	CHIP RESISTOR	[M]
W6	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7	ERJ3GEY0R00V	CHIP JUMPER	[M]
W8	ERJ3GEY0R00V	CHIP JUMPER	[M]
W9	ERJ3GEY0R00V	CHIP JUMPER	[M]
W10	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2002	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2003	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2005	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2009	ERJ6GEY0R00V	CHIP JUMPER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W2010	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2011	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2015	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2016	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2017	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2018	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2019	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2020	ERJ6GEY0R00V	CHIP JUMPER	[M]
W2021	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2022	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2023	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2024	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2025	ERJ6GEY0R00V	CHIP JUMPER	[M]
W2026	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2027	ERJ6GEY0R00V	CHIP JUMPER	[M]
W2028	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2030	ERJ6GEY0R00V	CHIP JUMPER	[M]
W2031	ERJ6GEY0R00V	CHIP JUMPER	[M]
W2042	ERJ6GEY0R00V	CHIP JUMPER	[M]
W2051	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2060	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2061	ERJ6GEY0R00V	CHIP JUMPER	[M]
W2072	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2073	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2074	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2075	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2082	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2083	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2085	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2086	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2103	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2104	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2106	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2108	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2109	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2110	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2112	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2113	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2117	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2118	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2119	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2121	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2122	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2123	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2124	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2127	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2131	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2133	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2134	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2136	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2138	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2139	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2140	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2159	ERJ6GEY0R00V	CHIP RESISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W2166	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2169	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2170	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2171	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2174	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2184	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2186	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2250	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2251	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2252	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2253	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2257	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2258	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2260	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2261	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2262	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2263	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2264	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2265	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2266	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2267	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2268	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2269	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2270	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2271	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4001	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4002	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4003	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4004	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4005	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4006	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4007	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4009	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4010	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4011	ERJ6GEY0R00V	0 1/16W	[M]
W4012	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4013	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4017	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4018	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4101	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4102	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4103	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4104	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4106	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4107	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4110	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4111	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4112	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4113	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4114	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4115	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4116	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4120	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4121	ERJ3GEY0R00V	CHIP JUMPER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W4339	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W4700	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4717	ERJ3GEY0R00V	CHIP JUMPER	[M]
W4718	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6900	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6901	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6902	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6919	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6920	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6922	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6925	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6926	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6927	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6928	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6929	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6930	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6931	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6941	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6942	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6943	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6944	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6945	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6946	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6947	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6948	ERJ6GEY0R00V	CHIP RESISTOR	[M]
K3702	ERJ3GEY0R00V	CHIP JUMPER	[M]
K3903	ERJ3GEY0R00V	CHIP JUMPER	[M]
K3905	ERJ2GE0R00X	CHIP JUMPER	[M]
K5001	ERJ3GEY0R00V	CHIP JUMPER	[M]
K8001	ERJ3GEY0R00V	CHIP JUMPER	[M]
K8006	ERJ3GEY0R00V	CHIP JUMPER	[M]
K8251	ERJ3GEY0R00V	CHIP JUMPER	[M]
K8321	ERJ2GE0R00X	CHIP JUMPER	[M]
K8325	ERJ2GE0R00X	CHIP JUMPER	[M]
K8331	ERJ2GE0R00X	CHIP JUMPER	[M]
K8335	ERJ2GE0R00X	CHIP JUMPER	[M]
K8341	ERJ2GE0R00X	CHIP JUMPER	[M]
		WIRES	
FC9101	RWJ4906082SS	6P WIRE	[M]
		CAPACITORS	
C2001	ECEA1CKS470I	47 16V	[M]
C2002	ECJ1VB1C104K	0.1 16V	[M]
C2003	ECEA1EKS220B	22 25V	[M]
C2004	ECJ1VB1H103K	0.01 50V	[M]
C2006	ECEA1HKS2R2B	2.2 50V	[M]
C2007	ECJ1VB1C104K	0.1 16V	[M]
C2008	ECEA0JKS101B	100 6.3V	[M]
C2009	ECJ1VB1C104K	0.1 16V	[M]
C2010	ECJ1VB1H331K	330P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2011	ECJ1VB1H331K	330P 50V	[M]
C2012	ECJ1VB1H331K	330P 50V	[M]
C2013	ECJ1VB1H223K	0.022 50V	[M]
C2016	ECEA1CKS470I	47 16V	[M]
C2017	ECJ1VB1H103K	0.01 50V	[M]
C2018	ECEA1CKS470I	47 16V	[M]
C2019	ECEA1CKS470I	47 16V	[M]
C2020	ECJ1VB1H103K	0.01 50V	[M]
C2021	ECA1AAD221XI	220 10V	[M]
C2022	ECA1AAD221XI	220 10V	[M]
C2023	ECJ1VB1H221K	220P 50V	[M]
C2024	ECJ1VB1H221K	220P 50V	[M]
C2025	ECJ1VB1H471K	470P 50V	[M]
C2026	ECEA1CKS100I	10 16V	[M]
C2027	ECJ1VB1C104K	0.1 16V	[M]
C2028	ECJ1VB1C104K	0.1 16V	[M]
C2029	ECJ1VB1H471K	470P 50V	[M]
C2030	ECJ1VB1H471K	470P 50V	[M]
C2101	ECJ1VB1A105K	1 10V	[M]
C2111	ECJ1VB1A105K	1 10V	[M]
C2112	ECJ1VB1H471K	470P 50V	[M]
C2114	ECJ1VB1H562K	5600P 50V	[M]
C2115	ECJ1VB1H331K	330P 50V	[M]
C2117	ECJ1VB1C104K	0.1 16V	[M]
C2118	ECJ1VB1C104K	0.1 16V	[M]
C2119	ECJ1VB1A105K	1 10V	[M]
C2120	ECJ1VB1C333K	0.033 16V	[M]
C2121	ECJ1VB1C224K	0.22 16V	[M]
C2160	ECJ1VB1C183K	0.018 16V	[M]
C2161	ECJ1VB1C393K	0.039 16V	[M]
C2162	ECJ1VB1H332K	3300P 50V	[M]
C2164	ECJ1VB1H102K	1000P 50V	[M]
C2165	ECJ1VC1H101J	100P 50V	[M]
C2169	ECJ1VB1H103K	0.01 50V	[M]
C2170	ECEA1HKS010B	1 50V	[M]
C2171	ECEA1EKS4R7B	4.7 25V	[M]
C2172	ECJ1VB1H681K	680P 50V	[M]
C2177	ECEA1HKS010I	1 50V	[M]
C2178	ECJ1VC1H101J	100P 50V	[M]
C2179	ECJ1VC1H820J	82P 50V	[M]
C2180	ECJ1VB1C104K	0.1 16V	[M]
C2181	ECJ1VB1H102K	1000P 50V	[M]
C2183	ECEA1HKS3R3B	3.3 50V	[M]
C2184	ECJ1VB1A105K	1 10V	[M]
C2185	ECJ1VB1A105K	1 10V	[M]
C2186	ECJ1VB1A105K	1 10V	[M]
C2187	ECJ1VB1A105K	1 10V	[M]
C2188	ECJ1VB1A105K	1 10V	[M]
C2190	ECJ1VB1A105K	1 10V	[M]
C2191	ECJ1VC1H101J	100P 50V	[M]
C2193	ECJ1VB1C104K	0.1 16V	[M]
C2194	ECJ1VC1H821J	820P 50V	[M]
C2201	ECJ1VB1A105K	1 10V	[M]
C2211	ECJ1VB1A105K	1 10V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2212	ECJ1VB1H471K	470P 50V	[M]
C2214	ECJ1VB1H562K	5600P 50V	[M]
C2215	ECJ1VB1H331K	330P 50V	[M]
C2217	ECJ1VB1C104K	0.1 16V	[M]
C2218	ECJ1VB1C104K	0.1 16V	[M]
C2219	ECJ1VB1A105K	1 10V	[M]
C2220	ECJ1VB1C333K	0.033 16V	[M]
C2221	ECJ1VB1C224K	0.22 16V	[M]
C2260	ECJ1VB1C183K	0.018 16V	[M]
C2261	ECJ1VB1C393K	0.039 16V	[M]
C2262	ECJ1VB1H332K	3300P 50V	[M]
C2264	ECJ1VB1H102K	1000P 50V	[M]
C2265	ECJ1VC1H101J	100P 50V	[M]
C2270	ECEA1HKS010B	1 50V	[M]
C2272	ECJ1VB1H681K	680P 50V	[M]
C2277	ECEA1HKS010I	1 50V	[M]
C2278	ECJ1VC1H101J	100P 50V	[M]
C2279	ECJ1VC1H820J	82P 50V	[M]
C2280	ECJ1VB1C104K	0.1 16V	[M]
C2281	ECJ1VB1H102K	1000P 50V	[M]
C2283	ECEA1HKS3R3B	3.3 50V	[M]
C2284	ECJ1VB1C105K	1 16V	[M]
C2285	ECJ1VB1A105K	1 16V	[M]
C2286	ECJ1VB1A105K	1 16V	[M]
C2287	ECJ1VB1A105K	1 16V	[M]
C2288	ECJ1VB1A105K	1 16V	[M]
C2290	ECJ1VB1A105K	1 16V	[M]
C2291	ECJ1VC1H101J	100P 50V	[M]
C2293	ECJ1VB1C104K	0.1 16V	[M]
C2294	ECJ1VC1H821J	820P 50V	[M]
C2300	ECJ1VB1A105K	1 10V	[M]
C2301	ECJ2YB0J475K	4.7 6.3V	[M]
C2302	ECJ1VB1C183K	0.018 16V	[M]
C2303	ECJ1VB1C104K	0.1 16V	[M]
C2304	ECEA1CKS100I	10 16V	[M]
C2305	ECJ1VB1H332K	3300P 50V	[M]
C2306	ECJ1VB1A154K	0.15 10V	[M]
C2307	ECEA1CKS100I	10 16V	[M]
C2308	ECJ1VB1H223K	0.022 50V	[M]
C2309	ECJ1VB1C823K	0.082 16V	[M]
C2312	ECEA1HKS3R3B	3.3 50V	[M]
C2316	ECJ1VB1H103K	0.01 50V	[M]
C2318	ECEA1EKS4R7B	4.7 25V	[M]
C2321	ECJ1VB1H103K	0.01 50V	[M]
C2322	ECJ2YB0J475K	4.7 6.3V	[M]
C2323	ECJ1VB1H471K	470P 50V	[M]
C2325	ECJ1VB1C473K	0.047 16V	[M]
C2326	ECJ1VB1H122K	1200P 50V	[M]
C2327	ECJ1VB1H392K	3900P 50V	[M]
C2328	ECJ1VB1C224K	0.22 16V	[M]
C2400	ECJ1VB1A105K	1 10V	[M]
C2401	ECJ2YB0J475K	4.7 6.3V	[M]
C2402	ECJ1VB1C183K	0.018 16V	[M]
C2403	ECJ1VB1C104K	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2404	ECEA1CKS100I	10 16V	[M]
C2405	ECJ1VB1H332K	3300P 50V	[M]
C2406	ECJ1VB1A154K	0.15 10V	[M]
C2407	ECEA1CKS100I	10 16V	[M]
C2408	ECJ1VB1H223K	0.022 50V	[M]
C2412	ECEA1HKS3R3B	3.3 50V	[M]
C2415	ECJ1VB1C823K	0.082 16V	[M]
C2416	ECJ1VB1H103K	0.01 50V	[M]
C2421	ECJ1VB1H103K	0.01 50V	[M]
C2422	ECJ2YB0J475K	4.7 6.3V	[M]
C2423	ECJ1VB1H471K	470P 50V	[M]
C2425	ECJ1VB1C473K	0.047 16V	[M]
C2426	ECJ1VB1H122K	1200P 50V	[M]
C2428	ECJ1VB1C224K	0.22 16V	[M]
C2429	ECJ1VB1H103K	0.01 50V	[M]
C2430	ECJ1VB1H103K	0.01 50V	[M]
C2500	ECJ1VB1A105K	1 10V	[M]
C2501	ECEA1CKS100I	10 16V	[M]
C2502	ECJ1VB1C333K	0.033 16V	[M]
C2503	ECJ1VB1C823K	0.082 16V	[M]
C2506	ECEA1HKS010B	1 50V	[M]
C2507	ECJ1VB1H471K	470P 50V	[M]
C2509	ECJ1VB1H821K	820P 50V	[M]
C2600	ECJ1VB1A105K	1 10V	[M]
C2601	ECJ1VB1H223K	0.022 50V	[M]
C2602	ECEA1EKS4R7B	4.7 25V	[M]
C2603	ECJ1VB1A105K	1 10V	[M]
C2604	ECJ1VB1C104K	0.1 16V	[M]
C2605	ECJ1VB1A474K	0.47 10V	[M]
C2606	ECEA1CKS100I	10 16V	[M]
C2607	ECEA1EKS220B	22 25V	[M]
C2608	ECEA1CKS100I	10 16V	[M]
C2609	ECJ1VB1H104K	0.1 50V	[M]
C2610	ECJ1VB1A184K	0.18 10V	[M]
C2611	ECJ1VB1H123K	0.012 50V	[M]
C2612	ECJ1VB1H392K	3900P 50V	[M]
C2615	ECJ1VB1H222K	2200P 50V	[M]
C2617	ECJ1VB1C104K	0.1 16V	[M]
C2618	ECEA1EKS4R7B	4.7 25V	[M]
C2619	ECEA1HKA100B	10 50V	[M]
C2620	ECJ1VC1H101J	100P 50V	[M]
C2621	ECJ1VB1C104K	0.1 16V	[M]
C2801	ECJ1VB1C104K	0.1 16V	[M]
C2802	ECEA0JKS101B	100 6.3V	[M]
C2803	ECEA0JKS101B	100 6.3V	[M]
C2804	ECEA0JKS101B	100 6.3V	[M]
C2805	ECEA0JKS101B	100 6.3V	[M]
C2806	ECEA0JKS101B	100 6.3V	[M]
C2807	ECJ1VB1H103K	0.01 50V	[M]
C2808	ECA1AAD221XI	220 10V	[M]
C2809	ECEA1EKS220B	22 25V	[M]
C2810	ECJ1VB1H103K	0.01 50V	[M]
C2811	ECJ1VB1C104K	0.1 16V	[M]
C2812	ECJ1VB1C104K	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2814	ECEA1EKS220B	22 25V	[M]
C2815	ECEA1EKS220B	22 25V	[M]
C2816	ECEA1EKS220B	22 25V	[M]
C2817	ECJ1VB1A105K	1 10V	[M]
C2818	ECJ1VB1A105K	1 10V	[M]
C2819	ECJ1VC1H101J	100P 50V	[M]
C2820	ECJ1VC1H101J	100P 50V	[M]
C2821	ECJ1VC1H101J	100P 50V	[M]
C2822	ECJ1VC1H101J	100P 50V	[M]
C2823	ECJ1VC1H101J	100P 50V	[M]
C2825	ECJ1VC1H101J	100P 50V	[M]
C2826	ECJ1VC1H101J	100P 50V	[M]
C2827	ECJ1VC1H101J	100P 50V	[M]
C2828	ECJ1VC1H101J	100P 50V	[M]
C2829	ECJ1VC1H101J	100P 50V	[M]
C2830	ECJ1VC1H100J	10P 50V	[M]
C2832	ECJ1VB1H221K	220P 50V	[M]
C2833	ECJ1VB1H104K	0.1 50V	[M]
C2834	ECEA1EKS220B	22 25V	[M]
C2835	ECEA1EKS220B	22 25V	[M]
C2836	ECJ1VB1C104K	0.1 16V	[M]
C2837	ECJ1VB1C104K	0.1 16V	[M]
C2838	ECJ1VB1C104K	0.1 16V	[M]
C2839	ECJ1VB1C104K	0.1 16V	[M]
C2901	ECA1EM102B	1000 25V	[M]
C2901	ECJ1VB1H104K	0.1 50V	[M]
C2902	ECJ1VB1H103K	0.01 50V	[M]
C2902	ECJ1VB1H104K	0.1 50V	[M]
C2903	ECJ1VB1H103K	0.01 50V	[M]
C2903	ECJ1VB1H104K	0.1 50V	[M]
C2904	ECJ1VB1H104K	0.1 50V	[M]
C2905	ECJ1VB1H104K	0.1 50V	[M]
C2906	ECJ1VB1H103K	0.01 50V	[M]
C2908	ECEA1CKA101B	100 16V	[M]
C2910	ECJ1VB1H103K	0.01 50V	[M]
C2913	ECEA1CKA101B	100 16V	[M]
C2914	ECEA1AKA330B	33 10V	[M]
C2917	ECJ1VB1H104K	0.1 50V	[M]
C2918	ECA1CAK470XB	47 16V	[M]
C2919	ECJ1VC1H101J	100P 50V	[M]
C2920	ECJ1VB1H103K	0.01 50V	[M]
C2921	ECA1EM221B	220 25V	[M]
C2922	EEUFC0J821B	820P 6.3V	[M]
C2923	ECEA1CKA101B	100 16V	[M]
C2925	ECA0JAK221XB	220 6.3V	[M]
C2926	ECJ1VB1C104K	0.1 16V	[M]
C2927	ECEA1CKA101B	100 16V	[M]
C2929	ECA0JAK221XB	220 6.3V	[M]
C2930	ECJ1VB1A105K	1 10V	[M]
C2931	ECA0JAK221XB	220 6.3V	[M]
C2932	ECEA1CKA101B	100 16V	[M]
C2940	ECJ1VB1H104K	0.1 50V	[M]
C2941	ECEA1CKA470B	47 16V	[M]
C2944	EEUFC0J821B	820P 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2945	ECJ1VB1H103K	0.01 50V	[M]
C2946	ECEA1CKA101B	100 16V	[M]
C2950	ECJ1VB1C104K	0.1 16V	[M]
C2951	ECJ1VB1C104K	0.1 16V	[M]
C2952	ECJ1VB1H103K	0.01 50V	[M]
C2953	ECJ1VB1H103K	0.01 50V	[M]
C2954	ECJ1VB1H103K	0.01 50V	[M]
C2955	ECJ1VB1H103K	0.01 50V	[M]
C2956	ECJ1VB1H103K	0.01 50V	[M]
C2957	ECJ1VB1H103K	0.01 50V	[M]
C2958	ECJ1VB1H103K	0.01 50V	[M]
C2960	ECJ1VB1A105K	1 10V	[M]
C2962	ECEA1CKA101B	100 16V	[M]
C2963	EEUFC1C471B	470P 16V	[M]
C2964	ECJ1VB1H103K	0.01 50V	[M]
C2965	ECJ1VB1H103K	0.01 50V	[M]
C2966	ECJ1VB1H103K	0.01 50V	[M]
C2967	ECJ1VB1H103K	0.01 50V	[M]
C2968	ECEA1CKA101B	100 16V	[M]
C2969	ECEA1CKA101B	100 16V	[M]
C3701	EEE0GA331WP	330P 4V	[M]
C3702	ECJ0EB1A104K	0.1 10V	[M]
C3703	ECJ0EB1A104K	0.1 10V	[M]
C3704	ECJ1VB0J105K	1 6.3V	[M]
C3705	ECJ0EB1A104K	0.1 10V	[M]
C3706	ECJ1VB0J105K	1 10V	[M]
C3707	ECJ1VB0J105K	1 10V	[M]
C3708	ECJ0EB1A104K	0.1 10V	[M]
C3709	ECJ0EB1A104K	0.1 10V	[M]
C3710	ECJ1VB0J105K	1 6.3V	[M]
C3711	ECJ0EB1A104K	0.1 10V	[M]
C3712	ECJ1VB0J105K	1 6.3V	[M]
C3713	ECJ0EB1A104K	0.1 10V	[M]
C3714	ECJ1VB0J105K	1 6.3V	[M]
C3715	ECJ1VB0J105K	1 6.3V	[M]
C3716	ECJ0EB1A104K	0.1 10V	[M]
C3717	ECJ0EB1A104K	0.1 10V	[M]
C3718	ECJ1VB0J105K	1 6.3V	[M]
C3719	ECJ1VB0J105K	1 6.3V	[M]
C3720	ECJ0EB1A104K	0.1 10V	[M]
C3721	ECJ0EB1A104K	0.1 10V	[M]
C3722	ECJ1VB0J105K	1 6.3V	[M]
C3723	F1J0J4750002	4.7 6.3V	[M]
C3784	ECJ0EB1A104K	0.1 10V	[M]
C3785	ECJ0EB1C103K	0.01 16V	[M]
C3786	ECJ1VB0J105K	1 6.3V	[M]
C3901	EEE0GA331WP	330P 4V	[M]
C3902	EEE0GA331WP	330P 4V	[M]
C3903	ECJ0EB1A104K	0.1 10V	[M]
C3904	ECJ0EB1A104K	0.1 10V	[M]
C3905	ECJ0EB1A104K	0.1 10V	[M]
C3906	ECJ1VB0J105K	1 6.3V	[M]
C3907	ECJ0EB1A104K	0.1 10V	[M]
C3908	ECJ0EB1E102K	1000P 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3909	ECJ0EB1E102K	1000P 25V	[M]
C3910	ECJ0EB1E102K	1000P 25V	[M]
C3911	ECJ0EB1A104K	0.1 10V	[M]
C3912	ECJ0EB1E102K	1000P 25V	[M]
C3913	ECJ0EB1A104K	0.1 10V	[M]
C3914	ECJ1VB0J105K	1 6.3V	[M]
C3915	ECJ0EB1A104K	0.1 10V	[M]
C3916	ECJ0EB1A104K	0.1 10V	[M]
C3917	ECJ1VB0J105K	1 6.3V	[M]
C3931	ECJ0EF1C104Z	0.1 16V	[M]
C3941	ECJ0EC1H221J	220P 50V	[M]
C3954	ECJ0EF1C104Z	0.1 16V	[M]
C3955	ECJ0EB1C103K	0.01 16V	[M]
C3956	ECJ1VB0J105K	1 6.3V	[M]
C3964	ECJ0EB1A104K	0.1 10V	[M]
C5001	ECEA1CKA101B	100 16V	[M]
C5002	ECEA1CKA101B	100 16V	[M]
C5003	ECEA1CKA101B	100 16V	[M]
C5011	ECJ1VB1H104K	0.1 50V	[M]
C5012	ECJ1VB1H103K	0.01 50V	[M]
C5013	ECJ1VB1H103K	0.01 50V	[M]
C5014	ECJ1VC1H101K	100P 50V	[M]
C5015	ECJ1VB1H391K	390P 50V	[M]
C5016	ECJ1VC1H101K	100P 50V	[M]
C5017	ECJ1VB1H391K	390P 50V	[M]
C5018	ECJ1VC1H470J	47P 50V	[M]
C5019	ECJ1VC1H470J	47P 50V	[M]
C5020	ECJ1VB1H104K	0.1 50V	[M]
C5021	F2A1C560B033	56P 16V	[M]
C5022	ECA1CAK470XB	47 16V	[M]
C5025	F2A1C560B033	56P 16V	[M]
C5027	F2A1J221A053	220P 63V	[M]
C5028	F2A1J221A053	220P 63V	[M]
C5029	F2A1J470A050	47P 63V	[M]
C5030	F2A1J470A050	47P 63V	[M]
C5031	ECEA1HKA100B	10 50V	[M]
C5033	ECJ1VB1H104K	0.1 50V	[M]
C5035	ECJ1VB1H104K	0.1 50V	[M]
C5036	ECJ1VB1H104K	0.1 50V	[M]
C5040	ECJ1VB1H104K	0.1 50V	[M]
C5062	ECA1CAK100XB	10 16V	[M]
C5063	ECA1CAK100XB	10 16V	[M]
C5066	ECJ1VB1H102K	1000P 50V	[M]
C5067	ECJ1VB1H102K	1000P 50V	[M]
C5071	F2A1V3300027	33P 35V	[M]
C5072	F2A1V3300027	33P 35V	[M]
C5073	ECJ1VB1H104K	0.1 50V	[M]
C5074	ECJ1VB1H104K	0.1 50V	[M]
C5075	F2A1V4710036	470P 35V	[M]
C5076	F2A1V4710036	470P 35V	[M]
C5077	F2A1V4710036	470P 35V	[M]
C5078	F2A1V4710036	470P 35V	[M]
C5096	ECA0JAK101XB	100 6.3V	[M]
C5097	ECEA1HKA100B	10 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C5098	ECJ1VB1H102K	1000P 50V	[M]
C5099	ECJ1VB1H103K	0.01 50V	[M]
C5101	ECJ1VB1H102K	1000P 50V	[M]
C5113	ECQV1H684JL3	0.68 50V	[M]
C5115	ECQV1H684JL3	0.68 50V	[M]
C5130	ECJ1VC1H101K	100P 50V	[M]
C5131	ECJ1VC1H101K	100P 50V	[M]
C5181	ECJ1VB1H104K	0.1 50V	[M]
C5183	ECJ1VB1H104K	0.1 50V	[M]
C5201	ECJ1VB1H102K	1000P 50V	[M]
C5214	ECQV1H105JL3	1 50V	[M]
C5216	ECQV1H105JL3	1 50V	[M]
C5230	ECJ1VC1H101K	100P 50V	[M]
C5231	ECJ1VC1H101K	100P 50V	[M]
C5282	ECJ1VB1H104K	0.1 50V	[M]
C5284	ECJ1VB1H104K	0.1 50V	[M]
C5301	ECJ1VB1H102K	1000P 50V	[M]
C5305	ECJ1VB0J474K	0.47 6.3V	[M]
C5317	ECQV1H684JL3	0.68 50V	[M]
C5318	ECQV1H684JL3	0.68 50V	[M]
C5386	ECJ1VB1H104K	0.1 50V	[M]
C5401	ECJ1VB1H102K	1000P 50V	[M]
C5406	ECJ1VB0J474K	0.47 6.3V	[M]
C5430	ECJ1VC1H101K	100P 50V	[M]
C5431	ECJ1VC1H101K	100P 50V	[M]
C5487	ECJ1VB1H104K	0.1 50V	[M]
C5501	ECJ1VB1H102K	1000P 50V	[M]
C5502	ECJ1VC1H101K	100P 50V	[M]
C5504	ECA1HAK2R2XB	2.2 50V	[M]
C5510	ECQE1684KF	0.68 100V	[M]
C5512	ECQE1684KF	0.68 100V	[M]
C5530	ECJ1VC1H101K	100P 50V	[M]
C5531	ECJ1VC1H101K	100P 50V	[M]
C5532	ECJ1VB1H104K	0.1 50V	[M]
C5601	ECJ1VB1H102K	1000P 50V	[M]
C5602	ECJ1VC1H101K	100P 50V	[M]
C5603	ECA1HAK2R2XB	2.2 50V	[M]
C5609	ECQE1684KF	0.68 100V	[M]
C5611	ECQE1684KF	0.68 100V	[M]
C5630	ECJ1VC1H101K	100P 50V	[M]
C5631	ECJ1VC1H101K	100P 50V	[M]
C5700	F2B2D8210010	820P 250V	[M]
C5701	ECQU2A224MLC	0.22 100V	[M] ⚠
C5702	F1BAF2220023	22P 10V	[M]
C5703	F2A1H100A248	10P 50V	[M]
C5705	F1BAF1020020	1000P 10V	[M] ⚠
C5706	ECQU2A224MLC	0.22 100V	[M] ⚠
C5708	ECQE2103KF	0.01 250V	[M]
C5709	ECJ1VB1H471K	470P 50V	[M]
C5710	ECQP6332JUB	CAPACITOR	[M]
C5711	F2A1H5600009	56P 50V	[M]
C5712	ECJ1VB1H221K	220P 50V	[M]
C5713	ECJ1VB1H102K	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C5715	ECA1CAK470XB	47 16V	[M]
C5717	F2A1J182A039	1800P 63V	[M]
C5720	ECJ1VB1H104K	0.1 50V	[M]
C5721	ECJ1VB1H104K	0.1 50V	[M]
C5722	ECJ1VB1H104K	0.1 50V	[M]
C5723	ECJ1VB1H104K	0.1 50V	[M]
C5725	ECA1HAK2R2XB	2.2 50V	[M]
C5727	ECCN3A470KGE	47P 1000V	[M]
C5729	ECA1HAK220XB	22 50V	[M]
C5732	ECJ1VB1H104K	0.1 50V	[M]
C5733	ECA1CAK221XB	220 16V	[M]
C5736	F1BAF2220023	22P 10V	[M] ⚠
C5737	F1BAF2220023	22P 10V	[M] ⚠
C5738	ECJ1VB1H681K	680P 50V	[M]
C5741	F2A1V222A061	2200P 35V	[M]
C5742	F2A1V222A061	2200P 35V	[M]
C5743	F2A1V4710036	470P 35V	[M]
C5754	ECJ1VB1H104K	0.1 50V	[M]
C5755	ECA1CAK220XB	22 16V	[M]
C5756	ECJ1VB1H103K	0.01 50V	[M]
C5757	ECJ1VB1H103K	0.01 50V	[M]
C5761	ECJ1VB1H223K	0.022 50V	[M]
C5764	ECJ1VB1H103K	0.01 50V	[M]
C5771	ECJ1VB1H104K	0.1 50V	[M]
C5780	F1B2H103A060	0.01 500V	[M]
C5781	F1B2H103A060	0.01 500V	[M]
C5782	F1B2H103A060	0.01 500V	[M]
C5783	F1B2H103A060	0.01 500V	[M]
C5784	F1J2E1030004	0.01 250V	[M]
C5785	F1J2E1030004	0.01 250V	[M]
C5790	ECJ1VB1H102K	1000P 50V	[M]
C5791	ECA1HM101B	100 50V	[M]
C5792	ECA0JAK221XB	220 6.3V	[M]
C5794	ECA1CAK330XB	33 16V	[M]
C5795	ECJ1VB1H104K	0.1 50V	[M]
C5796	ECA1HAK2R2XB	2.2 50V	[M]
C5797	ECA1CAK100XB	10 16V	[M]
C5798	ECA1VM471B	470 35V	[M]
C5800	ECA1CAK221XB	220 16V	[M]
C5913	ECA1HM221B	220 50V	[M]
C5914	ECJ1VB1A105K	10 10V	[M]
C5915	ECJ1VB1H104K	0.1 50V	[M]
C5916	ECEA1HKA101B	100 50V	[M]
C6101	ECJ1VB1H473K	0.047 50V	[M]
C6201	ECJ1VB1H473K	0.047 50V	[M]
C6801	ECJ1VB1H104K	0.1 50V	[M]
C6805	ECJ1VC1H101K	100P 50V	[M]
C6806	ECJ1VC1H101K	100P 50V	[M]
C6903	ECEA1HKA220B	22 50V	[M]
C6904	ECJ1VB1H102K	1000P 50V	[M]
C6905	ECEA1HKA220B	22 50V	[M]
C6906	ECJ1VC1H101K	100P 50V	[M]
C6909	ECJ1VB1H103K	0.01 50V	[M]

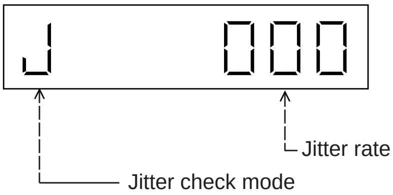
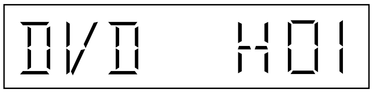
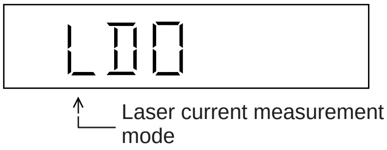
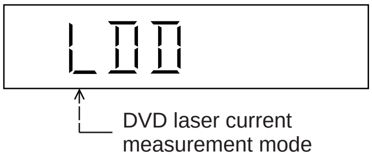
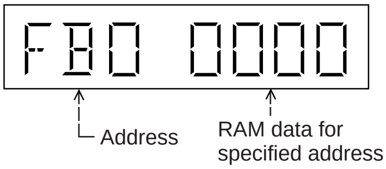
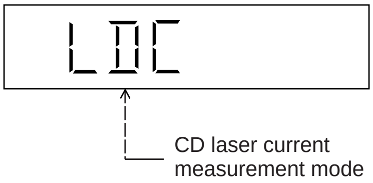
Ref. No.	Part No.	Part Name & Description	Remarks
C6910	ECEA0JKS101B	100 6.3V	[M]
C6911	ECJ1VB1H103K	0.01 50V	[M]
C6913	ECEA1HKS3R3B	3.3 50V	[M]
C6916	ECJ1VC1H101K	100P 50V	[M]
C6917	ECJ1VC1H101K	100P 50V	[M]
C6918	ECEA1AKA470B	47 10V	[M]
C6919	ECJ1VC1H101K	100P 50V	[M]
C6920	ECJ1VB1H331K	330P 50V	[M]
C6921	ECJ1VB1H331K	330P 50V	[M]
C6922	ECJ1VB1H103K	0.01 50V	[M]
C6923	ECJ1VB1H103K	0.01 50V	[M]
C6924	ECJ1VB1H103K	0.01 50V	[M]
C6925	ECJ1VB1H103K	0.01 50V	[M]
C6927	ECJ1VB1C104K	0.1 16V	[M]
C8001	EEE0GA331WP	330P 4V	[M]
C8003	ECJ0EF1C104Z	0.1 16V	[M]
C8004	ECJ0EF1C104Z	0.1 16V	[M]
C8005	ECJ0EF1C104Z	0.1 16V	[M]
C8006	ECJ0EF1C104Z	0.1 16V	[M]
C8007	ECJ0EF1C104Z	0.1 16V	[M]
C8008	ECJ0EF1C104Z	0.1 16V	[M]
C8011	F2G0J101A066	100P 6.3V	[M]
C8012	ECJ0EF1C104Z	0.1 16V	[M]
C8013	ECJ0EF1C104Z	0.1 16V	[M]
C8014	ECJ0EF1C104Z	0.1 16V	[M]
C8015	ECJ0EF1C104Z	0.1 16V	[M]
C8016	ECJ0EF1C104Z	0.1 16V	[M]
C8017	ECJ0EF1C104Z	0.1 16V	[M]
C8018	ECJ0EF1C104Z	0.1 16V	[M]
C8019	ECJ0EF1C104Z	0.1 16V	[M]
C8020	ECJ0EF1C104Z	0.1 16V	[M]
C8021	ECJ0EF1C104Z	0.1 16V	[M]
C8022	ECJ0EF1C104Z	0.1 16V	[M]
C8023	ECJ0EF1C104Z	0.1 16V	[M]
C8024	ECJ0EF1C104Z	0.1 16V	[M]
C8025	ECJ0EF1C104Z	0.1 16V	[M]
C8026	ECJ0EF1C104Z	0.1 16V	[M]
C8051	ECJ1VB0J105K	1 6.3V	[M]
C8052	ECJ0EB1A104K	0.1 10V	[M]
C8053	ECJ0EF1C104Z	0.1 16V	[M]
C8054	ECJ0EC1H221J	220P 50V	[M]
C8055	ECJ1VB0J105K	1 6.3V	[M]
C8056	ECJ0EB1E222K	2200P 25V	[M]
C8057	ECJ1VB0J105K	1 6.3V	[M]
C8111	ECJ0EB1A104K	0.1 10V	[M]
C8112	ECJ1VB0J105K	1 6.3V	[M]
C8113	ECJ0EB1E471K	470P 25V	[M]
C8151	ECJ1VB0J475K	4.7 6.3V	[M]
C8152	ECJ1VB1C105K	1 16V	[M]
C8201	F2G0J101A066	100P 6.3V	[M]
C8202	ECJ0EB1A104K	0.1 10V	[M]
C8203	ECJ0EB1A104K	0.1 10V	[M]
C8211	ECJ0EB1E122K	1200P 25V	[M]
C8221	ECJ0EB1E102K	1000P 25V	[M]

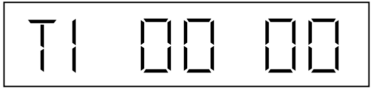
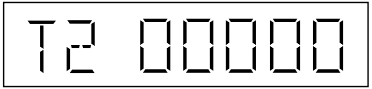
Ref. No.	Part No.	Part Name & Description	Remarks
C8222	ECJ0EB1E821K	820P 25V	[M]
C8225	ECJ0EB1E102K	1000P 25V	[M]
C8226	ECJ0EB1E102K	1000P 25V	[M]
C8231	ECJ0EB1A104K	0.1 10V	[M]
C8232	ECJ0EB1A104K	0.1 10V	[M]
C8251	F2G0J221A065	220P 6.3V	[M]
C8252	ECJ0EF1C104Z	0.1 16V	[M]
C8253	ECJ0EF1C104Z	0.1 16V	[M]
C8255	F2G1C220A037	22P 16V	[M]
C8256	ECJ0EF1C104Z	0.1 16V	[M]
C8257	F2G1C470A076	47P 16V	[M]
C8258	ECJ0EF1C104Z	0.1 16V	[M]
C8261	ECJ0EF1C104Z	0.1 16V	[M]
C8262	ECJ0EF1C104Z	0.1 16V	[M]
C8301	F2G0J221A031	220P 6.3V	[M]
C8302	F2G0J330A031	33P 6.3V	[M]
C8303	ECJ0EB1A104K	0.1 10V	[M]
C8304	ECJ0EB1A104K	0.1 10V	[M]
C8305	ECJ0EB1A104K	0.1 10V	[M]
C8306	ECJ0EB1A104K	0.1 10V	[M]
C8311	ECJ0EB1A104K	0.1 10V	[M]
C8312	ECJ1VB0J105K	1 6.3V	[M]
C8313	ECJ1VB0J105K	1 6.3V	[M]
C8401	ECJ0EC1H150J	15P 50V	[M]
C8421	F2G0J101A083	100P 6.3V	[M]
C8422	ECJ0EF1C104Z	0.1 16V	[M]
C8423	F2G0J330A083	33P 6.3V	[M]
C8424	ECJ0EF1C104Z	0.1 16V	[M]
C8426	ECJ0EF1C104Z	0.1 16V	[M]
C8427	ECJ0EF1C104Z	0.1 16V	[M]
C8428	ECJ0EF1C104Z	0.1 16V	[M]
C8501	F2G0J101A031	100P 6.3V	[M]
C8502	ECJ0EF1C104Z	0.1 16V	[M]
C8503	ECJ0EF1C104Z	0.1 16V	[M]
C8504	ECJ0EF1C104Z	0.1 16V	[M]
C8505	ECJ0EF1C104Z	0.1 16V	[M]
C8511	ECJ1VB0J105K	1 6.3V	[M]
C8512	ECJ1VB0J105K	1 6.3V	[M]
C8513	ECJ0EB1A104K	0.1 10V	[M]
C8514	ECJ0EB1A104K	0.1 10V	[M]
C8515	ECJ0EB1A104K	0.1 10V	[M]
C8516	ECJ0EB1A104K	0.1 10V	[M]
C8521	ECJ0EB1A104K	0.1 10V	[M]
C8522	ECJ0EB1A104K	0.1 10V	[M]
C8523	ECJ0EF1C104Z	0.1 16V	[M]
C8524	ECJ0EF1C104Z	0.1 16V	[M]
C8525	ECJ0EB1C562K	5600P 16V	[M]
C8526	ECJ0EB1C183K	0.018 16V	[M]
C8527	ECJ0EB1A333K	0.033 10V	[M]
C8528	ECJ1VB0J105K	1 6.3V	[M]
C8529	ECJ1VB0J105K	1 6.3V	[M]
C8530	ECJ0EF1C104Z	0.1 16V	[M]
C8531	ECJ0EC1H101J	100P 50V	[M]
C8532	ECJ0EC1H221J	220P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8533	ECJ0EF1C104Z	0.1 16V	[M]
C8541	ECJ0EB1E472K	4700P 25V	[M]
C8550	F2G0J330A031	33P 6.3V	[M]
C8551	ECJ0EF1C104Z	0.1 16V	[M]
C8552	F2G1C100A072	10P 16V	[M]
C8553	F2G0J470A031	47P 6.3V	[M]
C8554	ECJ1VB0J105K	1 6.3V	[M]
C8561	ECJ0EF1C104Z	0.1 16V	[M]
C8562	F2G1C100A072	10P 16V	[M]
C8563	F2G0J470A031	47P 6.3V	[M]
C8564	ECJ1VB0J105K	1 6.3V	[M]
C8571	ECJ3YB1A106M	10 10V	[M]
C8572	ECJ0EF1C104Z	0.1 16V	[M]
C8601	ECJ0EF1C104Z	0.1 16V	[M]
C8602	ECJ0EB1C153K	0.015 16V	[M]
C8606	ECJ0EF1C104Z	0.1 16V	[M]
C8611	ECJ0EF1C104Z	0.1 16V	[M]
C8621	ECJ0EC1H080D	8P 50V	[M]
C8622	ECJ0EC1H080D	8P 50V	[M]
C8651	ECJ0EF1C104Z	0.1 16V	[M]
C8652	ECJ0EF1C104Z	0.1 16V	[M]
C8691	ECJ0EF1C104Z	0.1 16V	[M]
C8695	ECJ0EF1C104Z	0.1 16V	[M]
C8701	ECJ0EB1A104K	0.1 10V	[M]

26. Schematic Diagram for printing with letter size

Ref No.	IC5001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	3.0	0	2.8	0	2.8	0	0	0	0	0	0	6.0	0	11.8	0	6.0	0	0	11.9
STANDBY	0	30.	0	2.8	0	2.8	0	0	0	0	0	0	6.0	0	11.8	0	6.0	0	0	11.9
Ref No.	IC5001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.5	2.4	5.3	0	6.0	12.0	8.6	8.7	0	8.7	56.5	8.6	0	8.7	56.5	8.6	0	8.6	8.6	-3.1
STANDBY	1.5	2.4	5.3	0	6.0	12.0	8.6	8.7	0	8.7	56.5	8.7	0	8.7	56.5	8.6	0	8.6	8.7	-3.1
Ref No.	IC5001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
CD PLAY	-3.1	-29.1	29.3	-3.1	-3.2	29.3	-29.1	-3.2	-3.2	0	-29.1	29.3								
STANDBY	-3.1	-29.1	29.3	-3.1	-3.2	29.3	-29.1	-3.2	-3.2	0	-29.1	29.3								
Ref No.	IC5002									IC5004										
MODE	1	2	3	4	5	6	7	8		1	2	3								
CD PLAY	56.5	56.3	56.5	53.6	56.5	56.3	56.5	56.5		12.0	5.1	0								
STANDBY	56.5	56.3	56.5	53.6	56.5	56.3	56.5	56.5		12.0	5.1	0								
Ref No.	IC5010																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	5.0	5.0	0.2	2.5	2.5	0	2.4	2.6	2.6	2.4	0	5.1	5.1						
STANDBY	0	5.0	5.0	0.2	2.5	2.0	0	2.4	2.6	2.4	2.4	0	5.1	5.1						
Ref No.	IC5701																			
MODE	1	2	3	4	5															
CD PLAY	1.7	0	163.4	15.9	0															
STANDBY	1.8	0	165.0	15.9	0															
Ref No.	IC5702				IC5703															
MODE	1	2	3		1	2	3	4	5	6	7	8								
CD PLAY	2.5	0	15.2		-	-	-	-29.4	-	-	-	-								
STANDBY	2.5	0	15.3		-	-	-	-29.4	-	-	-	-								
Ref No.	IC5705				IC5721															
MODE	1	2	3		1	2	3	4	5	6	7	8								
CD PLAY	17.8	0	12.0		0	19.3	0	1.3	164.4	0	163.6	163.6								
STANDBY	17.9	0	12.0		0	19.3	0	1.3	164.4	0	164.0	163.6								
Ref No.	IC5750																			
MODE	1	2	3	4	5	6	7	8	9											
CD PLAY	0	0.3	0	0.3	8.6	9.1	0	0	0											
STANDBY	0	0.3	0	0.3	8.8	9.1	0	0	0											
Ref No.	Q5001				Q5002				Q5014				Q5015				Q5022			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	-	-	-		-	-	-		0	11.7	0		56.5	0	56.5		0	0	0.7	
STANDBY	-	-	-		-0.2	0	-0.2		0	11.8	0		56.5	0	56.5		0	0	0.7	
Ref No.	Q5023				Q5025				Q5031				Q5095				Q5096			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	6.0	0		0	0	0.7		56.5	-	-		-	-	-		-	-	-	
STANDBY	0	6.0	0		0	0	0.7		56.5	0	52.3		0	5.0	0		0	5.0	0	
Ref No.	Q5701				Q5702				Q5703				Q5704				Q5705			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	7.9	11.0	7.9		0.6	-	-3.1		3.5	4.3	4.2		3.4	4.2	4.0		-0.1	3.2	0.4	
STANDBY	8.0	11.0	7.9		0.6	-	-3.1		3.5	4.3	4.1		3.4	4.2	4.1		0	3.2	0.4	
Ref No.	Q5706				Q5726				Q5740				Q5741				Q5742			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	-17.5	-17.0	-16.8		0	3.8	0		6.5	18.1	7.0		0	4.9	0		0	0.1	0.7	
STANDBY	-17.5	-16.9	-16.8		0	3.8	0		6.5	18.1	7.0		0	4.9	0		0	0.1	0.7	
Ref No.	Q5744				Q5745					Q5746				Q5747						
MODE	E	C	B		1	2	3	4		E	C	B		E	C	B				
CD PLAY	0	4.5	0.3		1.1	0	-11.6	-11.5		0	0	4.8		7.9	15.9	16.2				
STANDBY	0	4.5	0.3		1.1	0	-11.4	-11.3		0	0	4.7		8.0	15.9	16.3				
Ref No.	Q5748					Q5750				Q5751				Q5752						
MODE	1	2	3	4		E	C	B		E	C	B		E	C	B				
CD PLAY	0	0.6	0.5	5.7		0	0	4.5		0	29.3	0		-13.8	-13.9	-14.6				
STANDBY	0.5	0	0.4	5.7		0	0	4.5		0	29.3	0		-13.8	-13.9	-14.6				
Ref No.	Q5753				Q5801					Q5908										
MODE	E	C	B		1	2	3	4		E	C	B								
CD PLAY	1.2	0	1.1		-5.7	4.6	-18.9	-18.3		-21.4	-29.4	-22.0								
STANDBY	1.2	0	1.9		-18.3	-19.0	4.6	5.7		-21.4	-29.4	-22.0								
Ref No.	Q5930				Q5932				Q5760											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	-0.1	0	0.6		1.3	-0.1	0.6		0	0	0.8									
STANDBY	0	0	0.6		1.3	0	0.7		0	0	0.7									

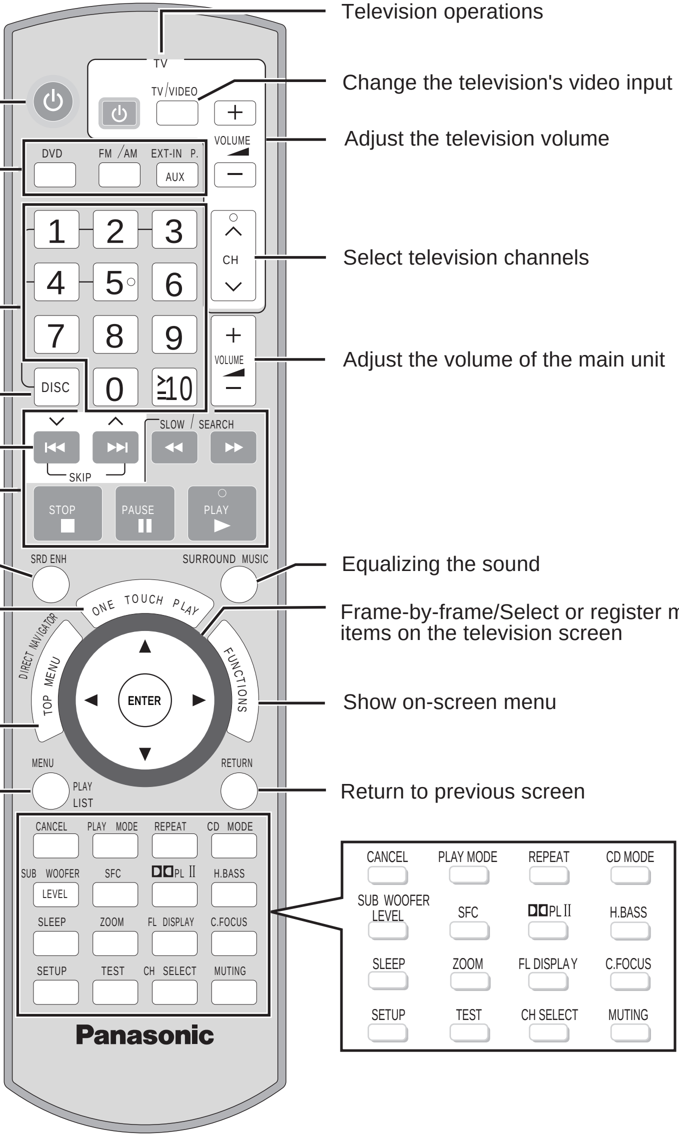
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Jitter check	Jitter check Jitter rate is measured and displayed. Measurement is repeatedly done in the cycle of one second. Read error counter starts from zero upon mode setting. When target block data failed to be read out, the counter advances by one increment. When the failure is caused by minor error, it may be corrected when retried to enable successful reading. In this case, the counter advances by one. When the error persists even after retry, the counter may jump by two or more.	 Jitter rate is shown in decimal notation to one place of decimal. Focus drive value is shown in hexadecimal notation.	In STOP (no disc) mode, press STOP button on the player, and "5" button on the remote control unit. Press STOP or OPEN button to exit. Press "FL Display" button on remote control unit for next page (FL Display).
Error code check	Error code check The latest error code stored in the EEPROM IC is displayed.	 Error code (play_err) is expressed in the following convention. Error code = 0 x DAXX is expressed: DVDnn UXX Error code = 0 x DBXX is expressed: → DVDnn HXX Error code = 0 x DXXX is expressed: → DVDnn FXXX Error code = 0 x 0000 is expressed: → DVDnn F--- * "xx" denotes the error code →	In STOP (no disc) mode, press STOP button on the player, and "0" button on the remote control unit. * With pointing of cursor up and down on display. Cancelled automatically 5 seconds later. To exit, press [POWER] button on main unit or remote control.
Initial setting of laser drive current	Initial setting of laser drive current. Initial current value for each of DVD laser and CD laser is separately saved in the EEPROM IC.	 The value denotes the current in decimal notation. The above example shows the initial current is 34mA and 28mA for DVD laser and CD laser respectively when the laser is switched on.	In STOP (no disc) mode, press STOP button on the player, and PAUSE button on the remote control unit. Cancelled automatically 5 seconds later. Press "FL Display" button on remote control unit for next page (FL Display) on values of laser drive current.
DVD laser drive current measurement	DVD laser drive current measurement ·DVD laser drive current is measured and the result is displayed together with the initial value stored in the EEPROM IC. After the measurement, DVD laser emission is kept on. It is turned off when POWER key is switched off. (It is also turned off when POWER button on the player is switched off.)	 The value denotes the current in decimal notation. The above example shows the initial current is 34mA and the measured value is 32mA.	In STOP (no disc) mode, press STOP button on the player, and FUNCTIONS button on the remote control unit. Cancelled automatically 5 seconds later. Press "FL Display" button on remote control unit for next page (FL Display) on values of dvd drive current.
ADSC internal RAM data check	ADSC internal RAM data check ·ADSC internal RAM data is read out and displayed.	 The value is shown in hexadecimal notation. The above example shows the data in ADSC address OFAh is 6901h.	In STOP (no disc) mode, press STOP button on the player, and "1" button on the remote control unit. Press STOP or PLAY button.
CD laser drive current measurement	CD laser drive current measurement CD laser drive current is measured and the result is displayed together with the initial value stored in the EEPROM IC. After the measurement, CD laser emission is kept on. It is turned off when POWER key is switched off. (It is also turned off when POWER button on the player is switched off.)	 The value denotes the current in decimal notation. The above example shows the initial current is 28mA and the measured value is 26mA.	In STOP (no disc) mode, press STOP button on the player, and "3" button on the remote control unit. Cancelled automatically 5 seconds later. Press "FL Display" button on remote control unit for next page (FL Display).

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Timer 1 check	Timer 1 check Laser operation timer Operation time is measured separately for DVD laser and CD laser. Press "FL Display" button for next page of FL Display	 Shown to the left is DVD laser time, and to the right CD laser time. Time is shown in 4 digits of decimal notation in a unit of 10 hours. "0000" will follow "9999".	In STOP (no disc) mode, press STOP button on the player, and "▲" button on the remote control unit. Cancelled automatically 5 seconds later.
Timer 1 reset	Timer 1 reset Laser operation timer Operation time of both DVD laser and CD laser is reset all at once.	T1_0000/0000 (display1/display2)	While displaying Timer 1 data, press STOP button on the player, and "▼" button on the remote control unit. Cancelled automatically 5 seconds later.
Timer 2 check	Timer 2 check Spindle motor operation timer Press "FL Display" button for next page of FL Display	 Time is shown in 5 digits of decimal notation in a unit of 10 hours. "00000" will follow "99999".	In STOP (no disc) mode, press STOP button on the player, and "▶" button on the remote control unit. Cancelled automatically 5 seconds later.
Timer 2 reset	Timer 2 reset Spindle motor operation timer	T2_00000	While displaying Timer 2 data, press STOP button on the player, and "◀" button on the remote control unit. Cancelled automatically 5 seconds later.

Problems	Checking Points	Checking components
1) Distorted picture or abnormal sound is heard during initialisation	a) Check SDRAM address, data bus, CLK and other control signals waveform	IC8051
	b) Check video signals	LB8301, R8321, R8322, LB8302, R8325, R8326
	c) Check audio DAC circuitry ***Compare the above with OK condition Module**	IC8421 ***Check for solder short and/or component missing/damaged**
2) No TOC/Long TOC	a) Check motor driver circuitry (voltages)	IC8251
	b) Check laser drive circuitry (voltages and current)	Q8550, Q8551, Q8552, Q8560, Q8561, Q8562
	c) Check LSI connection to motor drive circuitry ***Compare the above with OK condition Module**	IC8001 ***Check for solder short and/or component missing/damaged**
3) Disc not spinning 4) Traverse not moving 5) Traverse and spindle abnormal movement	a) Check connection from Backend Module to Traverse unit	FP8201
	b) Check motor driver circuitry on voltages and control signals ***Compare the above with OK condition Module**	IC8251 ***Check for solder short and/or component damaged**
6) Cannot read disc but spindle is spinning - Cannot read CD - Cannot read DVD	a) Check laser drive circuitry (voltages and current) - Check CD laser drive - Check DVD laser drive ***Check voltages and LD current and compare with OK Module**	Q8550, Q8551, Q8552, Q8560, Q8561, Q8562 Q8550, Q8560, Q8561, Q8562 Q8550, Q8551, Q8552, Q8560 ***Check for solder short and/or component missing/damaged**
7) Block noise during play	a) Check SDRAM address and data bus signal ***Compare the above with OK condition Module**	IC8051 ***Check for solder short and/or component damaged**

Problems	Checking Points	Checking components
8) Jitter out of specification	a) Check LD current b) Check OPU (change to other unit and confirm)	OPU unit (FFC connection)

Problems	Checking Points	Checking components
1) TV does not have display. Set FL display shows U702 / U703.	1) Check setting of the set in Setup Menu whether HDMI video output is turned ON.	
	2) +5V supply to TV	IC3952 (Pin 4)
	3) HDMI Connector Solderbility condition	P3901
	4) HDMI Output TMDS signal lines	
	- Data	L3903, L3904, L3905
	- Clock	L3906
	5) HDMI Transmitter communication lines to TV	
	- Data , SDA	LB3905, R3905, Q3902, R3904
	- Clock, SCL	LB3904, R3907, Q3903, R3906
	6) HDMI Transmitter communication lines from LSI	RX3902
	7) Local Port Slave Address setting resistor	R3921
	8) HDMI Transmitter +3.3V supply	LB3901, L3901, L3902
	9) HDMI Transmitter +1.8V supply	IC3782 (Pin1), LB3902
	10) HDMI Up-con +3.3V supply	LB3701
	11) HDMI Pixel clock output from Up-Con to HDMI Transmitter	LB3702
	12) Up-Con IC I2C Data and Clock Line	RX3706
	13) Hot-Plug signal	LB3906, R3902, R3903, Q3901, D3901
	14) TMDS output swing amplitude control resistor	R3901
	15) Host Interface External Input Clock from LSI (IC8001) to Up-Con IC (IC3701)	LB8702
	16) Video data lines from LSI (IC8001) to Up-Converter (IC3701)	RX3707, RX3708, RX3701
2) When switching the video output mode from 480p to 720p / 1080i, the TV display becomes blank.	1) Supply for IC3701 up-conversion pin - Pins : 55, 57, 62, 67, 71, 75, 79	LB3703
3) Picture shown on TV not clear / sharp	1) Up-Converter (IC3701) Luminance output	RX3702
4) Colour Problem. TV Screen is White / Blue / Purple.	1) Up-Converter (IC3701) Component Y, Pb, Pr output	RX3703, RX3704, RX3705
5) HDMI got no audio output.	1) Audio Data Lines	RX8403, RX8402 *Check for solder short and/or component missing/damaged as well as signal condition


TV
TV/VIDEO
VOLUME
DVD
FM/AM
EXT-IN P.
AUX
1
2
3
4
5
6
7
8
9
0
≧10
CH
VOLUME
DISC
SLOW/SEARCH
SKIP
STOP
PAUSE
PLAY
SRD ENH
SURROUND MUSIC
ONE TOUCH PLAY
DIRECT NAVIGATOR
TOP MENU
FUNCTIONS
ENTER
MENU
PLAY LIST
RETURN
CANCEL
PLAY MODE
REPEAT
CD MODE
SUB WOOFER LEVEL
SFC
ᗡD PL II
H.BASS
SLEEP
ZOOM
FL DISPLAY
C.FOCUS
SETUP
TEST
CH SELECT
MUTING
Panasonic

Turn the unit on/off

Select the source DVD/CD, FM/AM, TV/AUX/ FRONT MUSIC P./REAR MUSIC P.

Select disc's title numbers etc./Enter numbers

Select the disc or show disc information

Select preset radio stations

Basic operations for play

Enhance the surround sound

Start up and play a disc automatically / Control both the home theater system and the television

Show a disc top menu or program list

Show a disc menu or play list

Television operations

Change the television's video input mode

Adjust the television volume

Select television channels

Adjust the volume of the main unit

Equalizing the sound

Frame-by-frame/Select or register menu items on the television screen

Show on-screen menu

Return to previous screen

Standby/on switch [POWER ⏻/I]
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

MUSIC PORT
Connect an external device

SURROUND MUSIC
Equalizing the sound

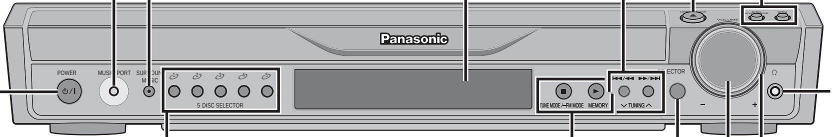
Display

◀◀/◀◀ ▶▶/▶▶| / ∨ TUNING ∧
Skip or slow-search play/
Select the radio stations

⏏ OPEN/CLOSE
Open/Close the disc drawer

DISC EXCHANGE
Open the disc drawer to exchange the disc in the play position

DISC SKIP
Skip to the next disc tray


Panasonic
POWER
⏻/I
MUSIC PORT
SURROUND MUSIC
1
2
3
4
5
5 DISC SELECTOR
■
▶
TUNE MODE/—FM MODE
MEMORY
|◀◀/◀◀ ▶▶/▶▶|
∨ TUNING ∧
SELECTOR
OPEN/CLOSE
VOLUME
EXCHANGE
DISC
Ω
−
+

Phones
Connect headphones

Jog LED

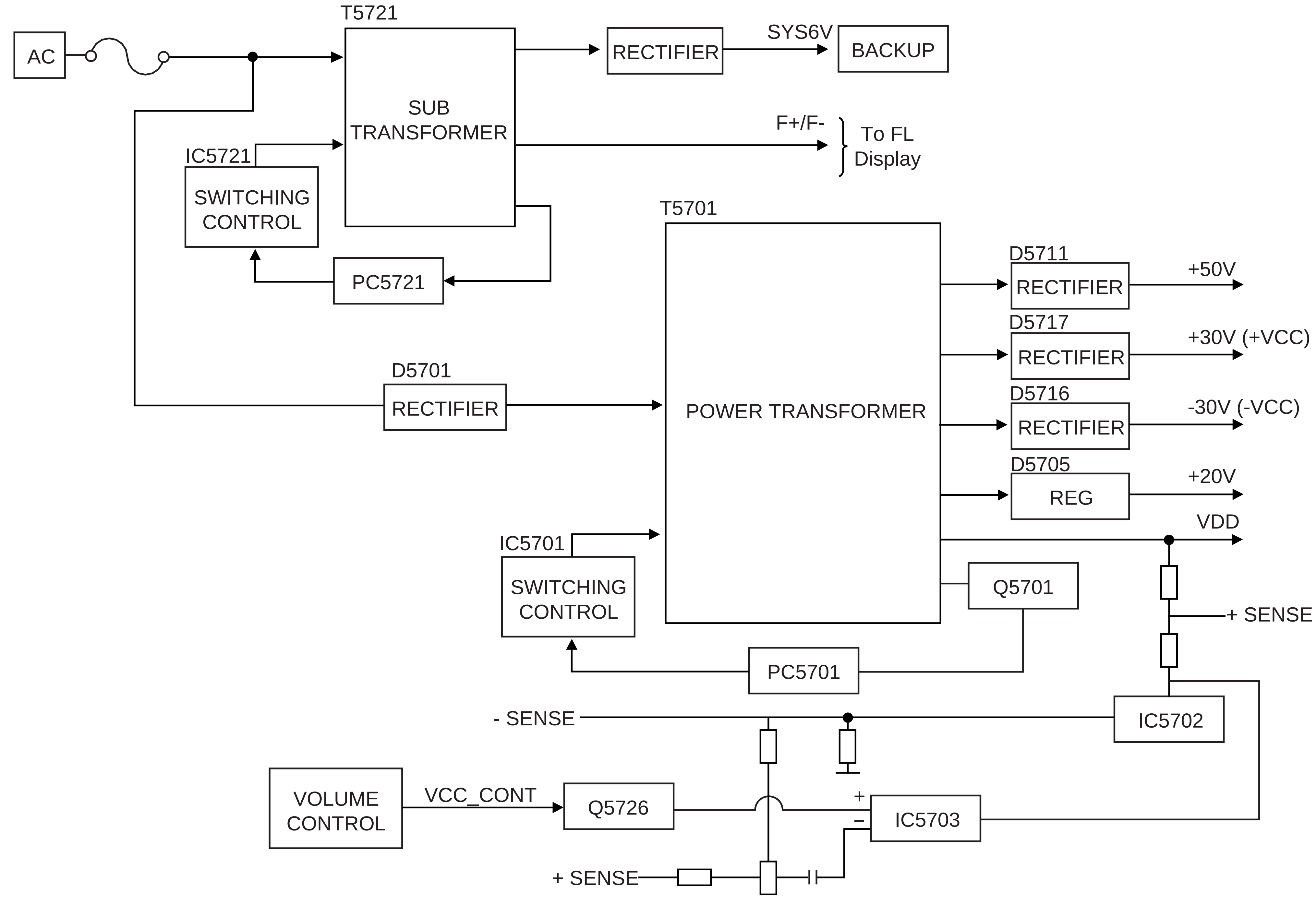
5 DISC SELECTOR
Select the disc tray

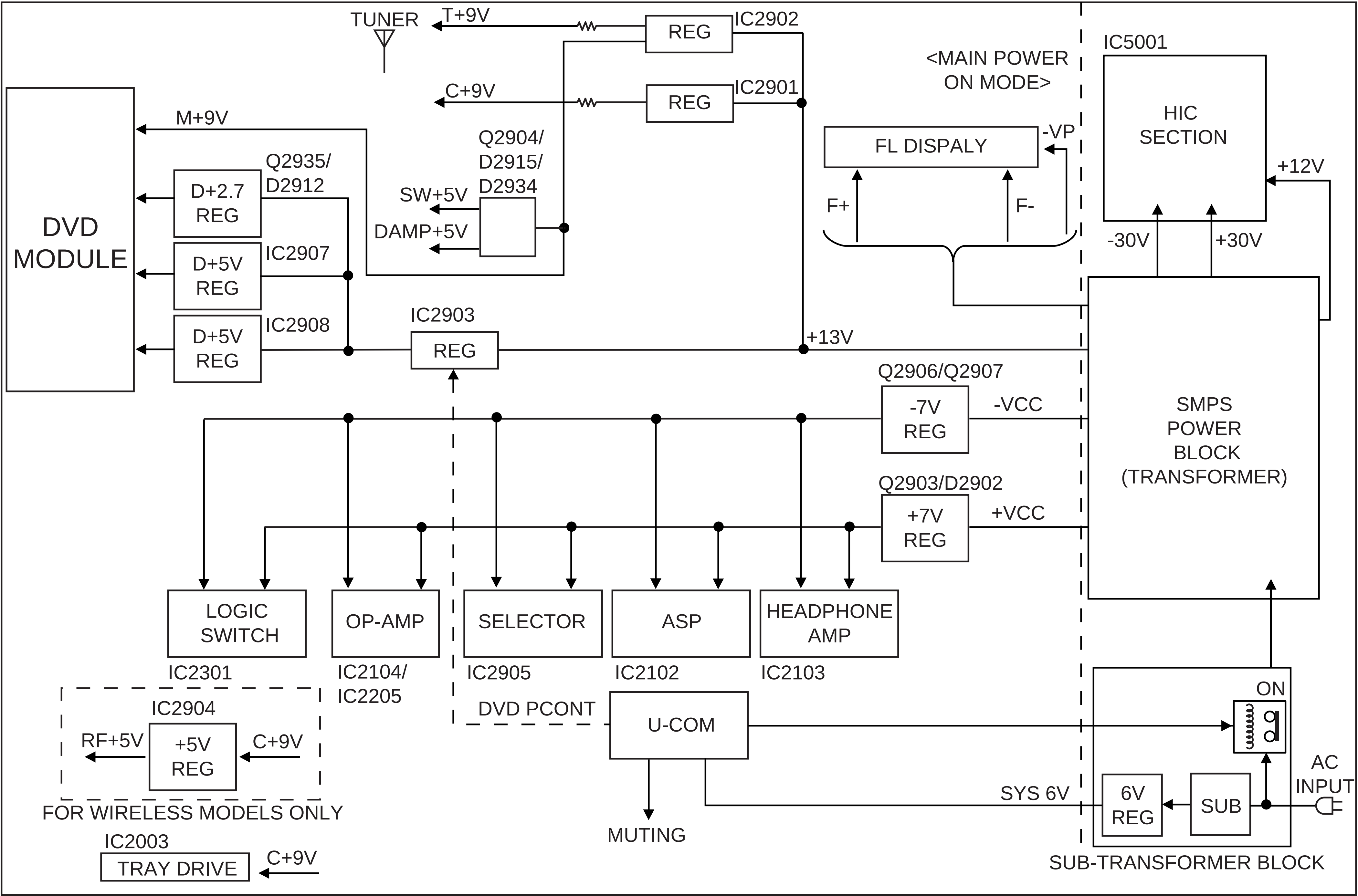
■ / –TUNE MODE / —FM MODE
Stop playing/Select the tuning mode
Adjust the FM reception condition

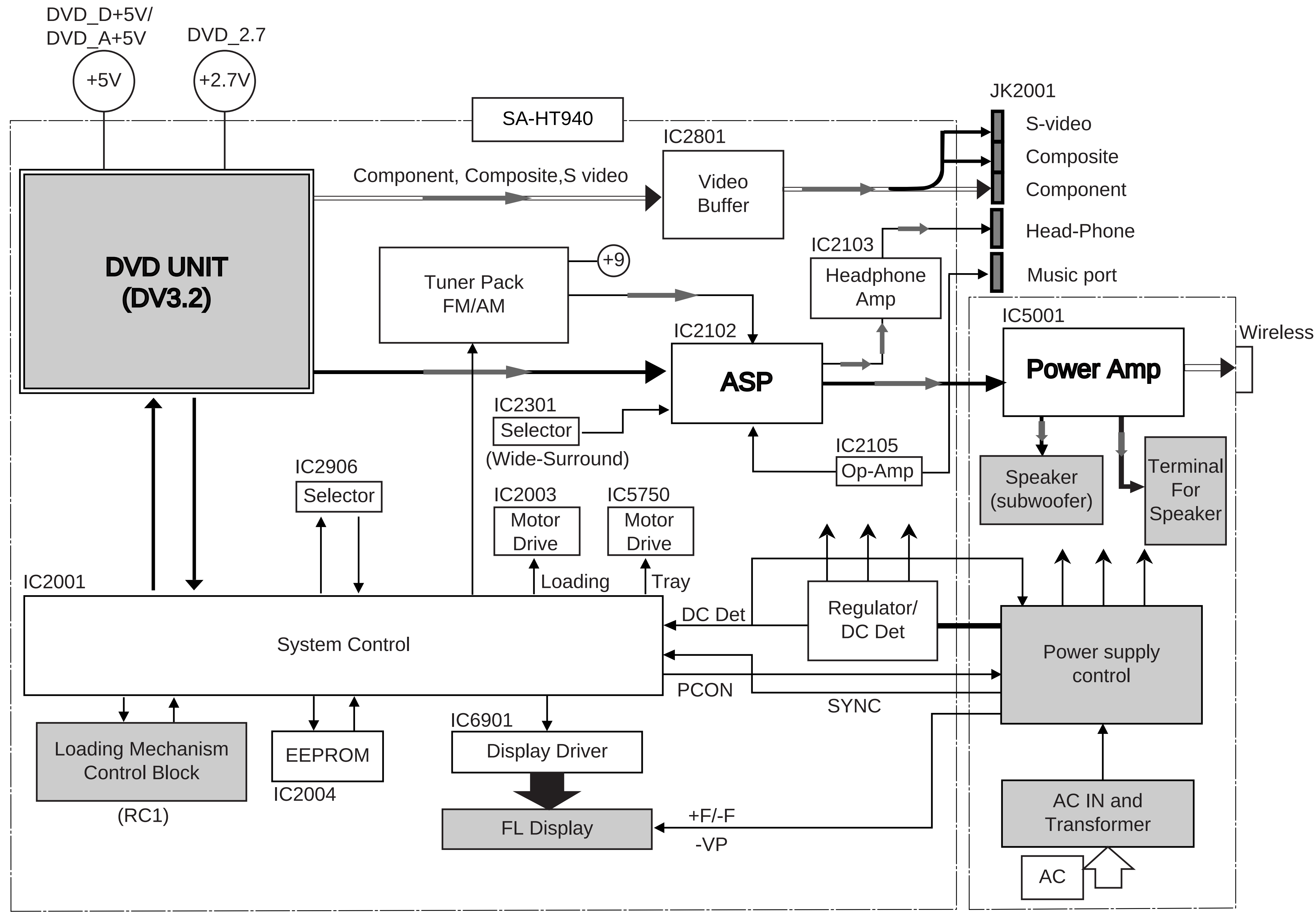
► / MEMORY
Play discs/Memorize the receiving radio stations

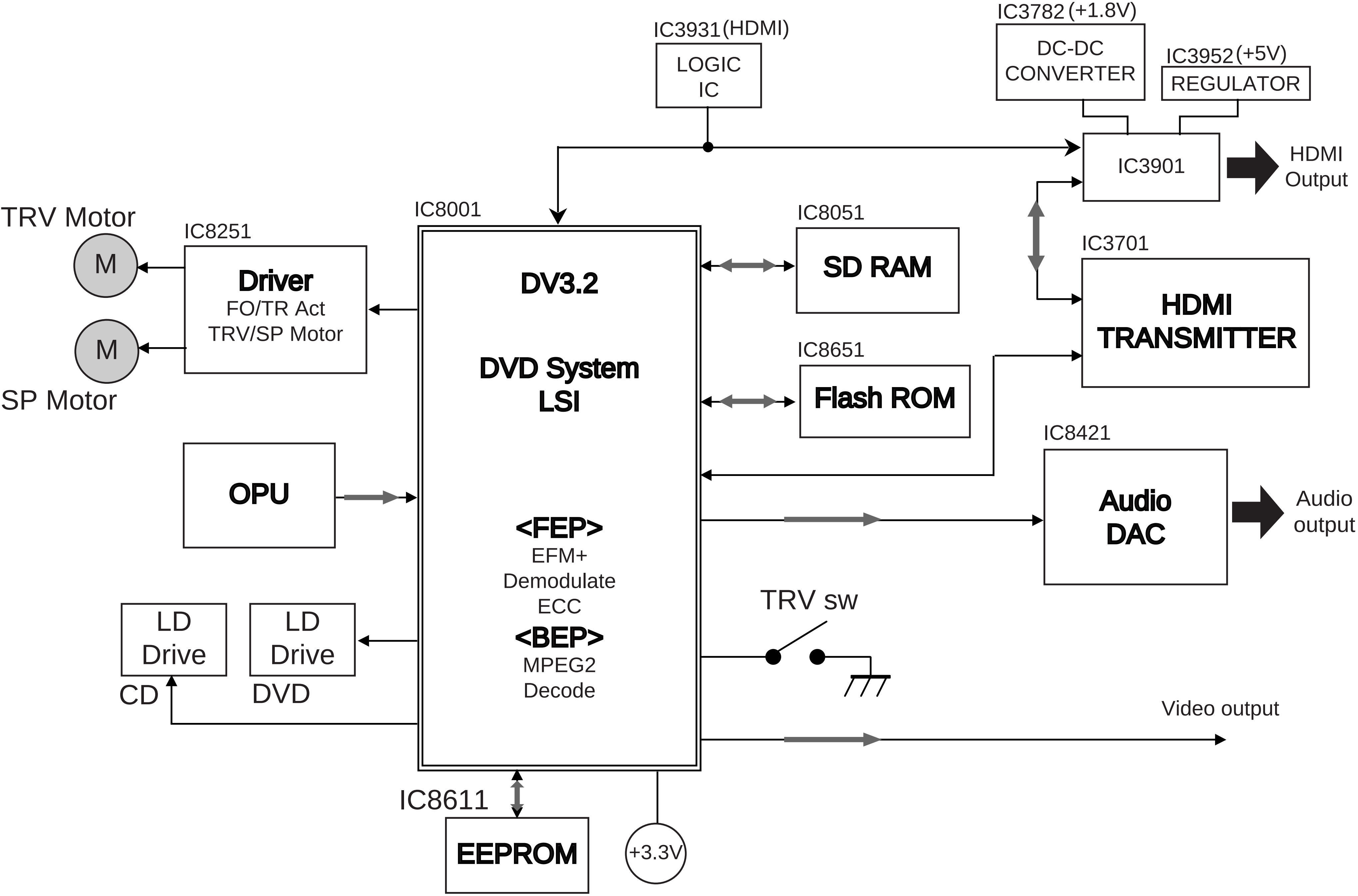
VOLUME
Turn up/down the volume

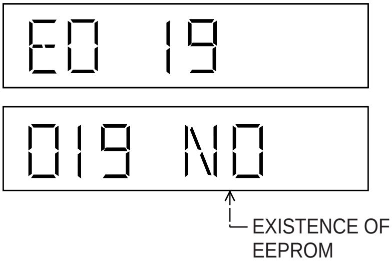
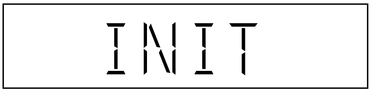
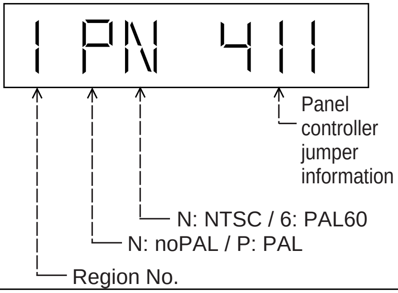
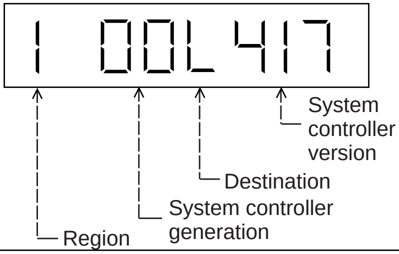
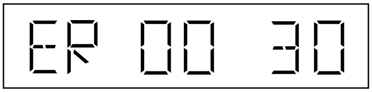
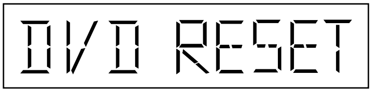
SELECTOR
DVD/CD→FM→AM→TV→AUX→FRONT MUSIC P.→REAR MUSIC P. → Return to DVD/CD

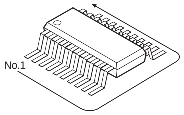

AC
T5721
SUB TRANSFORMER
RECTIFIER
SYS6V
BACKUP
F+/F-
To FL Display
IC5721
SWITCHING CONTROL
PC5721
T5701
POWER TRANSFORMER
D5701
RECTIFIER
D5711
RECTIFIER
+50V
D5717
RECTIFIER
+30V (+VCC)
D5716
RECTIFIER
-30V (-VCC)
D5705
REG
+20V
VDD
IC5701
SWITCHING CONTROL
Q5701
+ SENSE
PC5701
- SENSE
IC5702
VOLUME CONTROL
VCC_CONT
Q5726
+
−
IC5703
+ SENSE


TUNER
T+9V
REG
IC2902
REG
IC2901
C+9V
M+9V
<MAIN POWER ON MODE>
IC5001
HIC SECTION
+12V
-30V
+30V
FL DISPALY
-VP
F+
F-
Q2904/
D2915/
D2934
SW+5V
DAMP+5V
DVD MODULE
D+2.7 REG
Q2935/
D2912
D+5V REG
IC2907
D+5V REG
IC2908
IC2903
REG
+13V
SMPS POWER BLOCK (TRANSFORMER)
Q2906/Q2907
-7V REG
-VCC
Q2903/D2902
+7V REG
+VCC
LOGIC SWITCH
IC2301
OP-AMP
IC2104/
IC2205
SELECTOR
IC2905
ASP
IC2102
HEADPHONE AMP
IC2103
DVD PCONT
U-COM
MUTING
SYS 6V
IC2904
+5V REG
RF+5V
C+9V
FOR WIRELESS MODELS ONLY
IC2003
TRAY DRIVE
C+9V
ON
AC INPUT
6V REG
SUB
SUB-TRANSFORMER BLOCK


DVD_D+5V/
DVD_A+5V
+5V
DVD_2.7
+2.7V
SA-HT940
DVD UNIT
(DV3.2)
Component, Composite,S video
IC2801
Video
Buffer
JK2001
S-video
Composite
Component
Head-Phone
Music port
Tuner Pack
FM/AM
+9
IC2103
Headphone
Amp
IC2102
ASP
IC5001
Power Amp
Wireless
IC2301
Selector
(Wide-Surround)
IC2105
Op-Amp
Speaker
(subwoofer)
Terminal
For
Speaker
IC2906
Selector
IC2003
Motor
Drive
Loading
IC5750
Motor
Drive
Tray
IC2001
System Control
Regulator/
DC Det
DC Det
PCON
SYNC
Power supply
control
Loading Mechanism
Control Block
(RC1)
EEPROM
IC2004
IC6901
Display Driver
FL Display
+F/-F
-VP
AC IN and
Transformer
AC

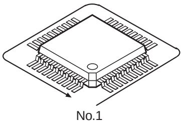

IC3931 (HDMI)
LOGIC IC
IC3782 (+1.8V)
DC-DC CONVERTER
IC3952 (+5V)
REGULATOR
IC3901
HDMI Output
TRV Motor
M
SP Motor
M
IC8251
Driver
FO/TR Act
TRV/SP Motor
IC8001
DV3.2
DVD System LSI
<FEP>
EFM+
Demodulate
ECC
<BEP>
MPEG2
Decode
IC8051
SD RAM
IC8651
Flash ROM
IC3701
HDMI TRANSMITTER
IC8421
Audio DAC
Audio output
OPU
LD Drive
CD
LD Drive
DVD
TRV sw
Video output
IC8611
EEPROM
+3.3V

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Micro-processor firmware version display & EEPROM checksum display.	Micro-processor firmware version display & EEPROM checksum display. EEPROM checksum is only available due to existence of EEPROM IC. (NO: NO EEPROM IC)	 E0 19 019 NO EXISTENCE OF EEPROM	In STOP (no disc) mode, press STOP button on the player, and "7" button on the remote control unit. Cancelled automatically 5 seconds later. Press "FL Display" button on remote control unit for next page. (FL Display)
Initialization	Initialization User settings are cancelled and player is initialized to factory setting.		In STOP (no disc) mode, press STOP button on the player , and ≧10 button on the remote control unit.
Region display	Region display & mode	 1 PN 411 Panel controller jumper information N: NTSC / 6: PAL60 N: noPAL / P: PAL Region No.	In STOP (no disc) mode, press STOP button on the player, and "6" button on the remote control unit. Cancelled automatically 5 seconds later.
DVD (HDMI) module firmware version display	DVD (HDMI) module firmware version display is on the FL Display.	 1 00L417 System controller version Destination System controller generation Region	In STOP (no disc) mode, press STOP button on the player, and "8" button on the remote control unit. Cancelled automatically 5 seconds later.
Communication error display	Displays frequency of communication errors between system control IC and mechanism control IC during DVD module.		In STOP (no disc) mode, press STOP button on the player, and "MENU" button on the remote control unit. Cancelled automatically 5 seconds later.
DVD Module Reset	To reset DVD Module.		In initialisation mode, press STOP button on the player, and "ENTER" button on the remote control unit. Cancelled automatically 5 seconds later.



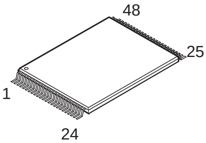
C0ABBB000067 (8p)
C0ABBA000163 (10p)
C0ABCB000088 (14p)
C0ABCB000052 (14p)
C0CBCAD00082 (8p)
C0DBZYY00018 (8p)
C0EBA0000029 (4p)
C0FBBK000050 (28p)

C0JBAB000472 (14p)
C0JBAR000326 (16p)
C3ABPG000133 (54p)
C3EBGC000055 (8p)
C3EBEG000073 (8p)
C9ZB00000461 (132p)
XP0621400L (6p)

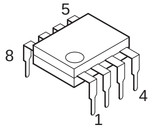


C0HBB0000057 (44p)
C1AB00002239 (80p)
C1BB00001098 (100p)
MN101C49GHH (100p)
MN2DS0009AP (256p)
MN864701 (164p)

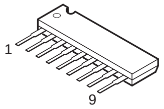
RFKWMHA0L160



C0DABYY00002
C0AABB000125



C0GAG0000007



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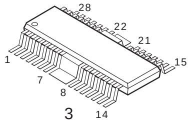
28
22
21
1
15
7
8
3
14

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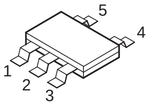
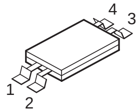
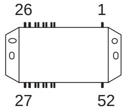
C0JBAA000344
C0JBAA000346
C0JBAB000614



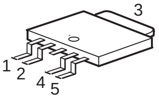
B3PBA0000237



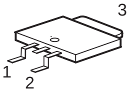
RSN704D66-P



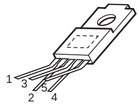
C0DBEHG00006



C0CBADE00023
C0CBADG00023



C0DAAMH00012
C0DAZYY00001
C0DAAMH00004



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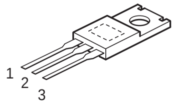

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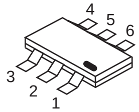
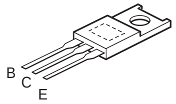


B1BACG000048



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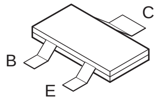

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B1GBCFLL0037
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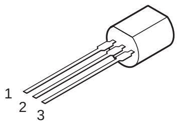

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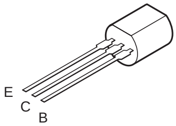

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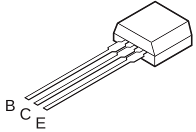

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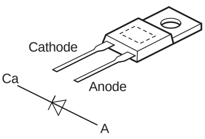
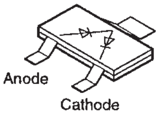

Cathode
Ca
Anode
A

B0ADCJ000020


Anode
Cathode

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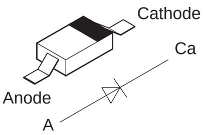
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Ca
Anode
A

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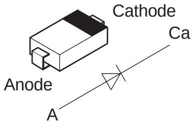
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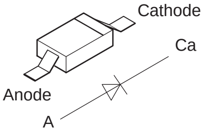
Cathode
Ca
Anode
A

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B0BC02900004
B0BC035A0007
B0BC2R4A0006
B0BC3R400001
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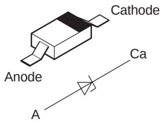
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A

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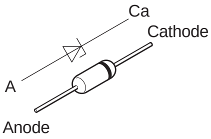
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A
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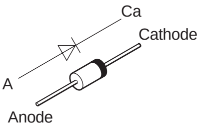
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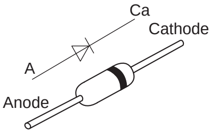
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Cathode
A
Anode

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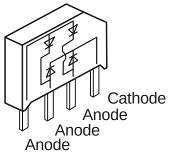
Cathode
Anode
Anode
Anode

B3ABA0000397
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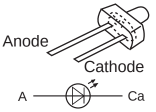
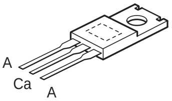

Anode
Cathode
A
Ca

B0HBSM000043



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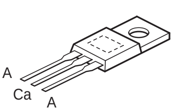

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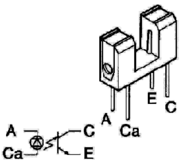
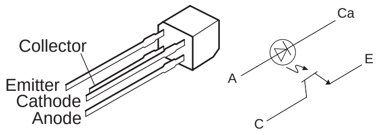
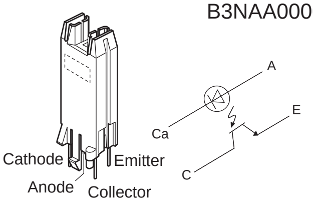

E
C
A
Ca
A
C
Ca
E

B3NAB0000027


Collector
Emitter
Cathode
Anode
Ca
A
E
C

B3NAA0000082


A
E
Ca
C
Cathode
Emitter
Anode
Collector

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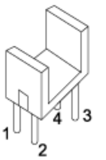


Discs that can be played

DVD VIDEO DVD VIDEO	**DVD-Video** DVD-V —
DVD AUDIO	**DVD-Audio** DVD-A DVD-V ● DVD-V Some DVD-Audio discs contain DVD-Video content.
COMPACT disc DIGITAL VIDEO COMPACT disc SUPER VIDEO	**Video CD** VCD ● Including SVCD (Conforming to IEC62107).
DVD RAM RAM4.7	**DVD-RAM** DVD-VR MP3 JPEG ● DVD-VR Recorded with devices using Version 1.1 of the Video Recording Format (a unified video recording standard), such as DVD video recorders, DVD video cameras, personal computers, etc. ● JPEG Recorded with Panasonic SD multi cameras or DVD video recorders using the DCF (Design rule for Camera File System) Standard Version 1.0.
DVD R R4.7 DVD RW DVD R DL	**DVD-R (DVD-Video)※1/DVD-RW (DVD-Video)** DVD-V ● Discs recorded and finalized※2 on DVD video recorders or DVD video cameras. **DVD-R (VR)※1/DVD-RW (VR)** DVD-VR ● Discs recorded and finalized※2 on DVD video recorders or DVD video cameras using Version 1.1 or 1.2 (DVD-R only) of the Video Recording Format (a unified video recording standard). **DVD-R/DVD-RW** MP3 JPEG ● Finalize※2 the disc after recording.
—	**+R (Video)※1/+RW (Video)** DVD-V ● Discs recorded and finalized※2 on DVD video recorders or DVD video cameras.
COMPACT disc DIGITAL AUDIO COMPACT disc DIGITAL AUDIO TEXT	**CD** CD WMA MP3 JPEG VCD ● This unit can play CD-R/RW recorded with the above formats. Close the sessions or finalize※2 the disc after recording. ● CD This unit is compatible with HDCD, but does not support the Peak Extend function (a function which expands the dynamic range of high-level signals). HDCD-encoded CDs sound better because they are encoded with 20 bits, as compared with 16 bits for all other CDs. ● WMA MP3 JPEG This unit also plays HighMAT discs. ● WMA This unit does not support Multiple Bit Rate (MBR: an encoding process for audio content that produces an audio file encoded at several different bit rates).

※1 Includes one-sided, double-layered discs.

※2 A process that allows play on compatible equipment.

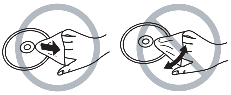
- It may not be possible to play all the abovementioned discs in some cases due to the type of disc or condition of the recording.

Discs that cannot be played

DVD-RW version 1.0, DVD-ROM, CD-ROM, CDV, CD-G, SACD, DivX Video Discs and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and “Chaoji VCD” available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

To clean discs

Wipe with a damp cloth and then wipe dry.



Disc handling precautions

- Do not attach labels or stickers to discs. This may cause disc warping, rendering it unusable.
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, liquids which prevent static electricity, or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not use the following discs:
  – Discs with exposed adhesive from removed stickers or labels (rented discs, etc).
  – Discs that are badly warped or cracked.
  – Irregularly shaped discs, such as heart shapes.

Note about using a DualDisc

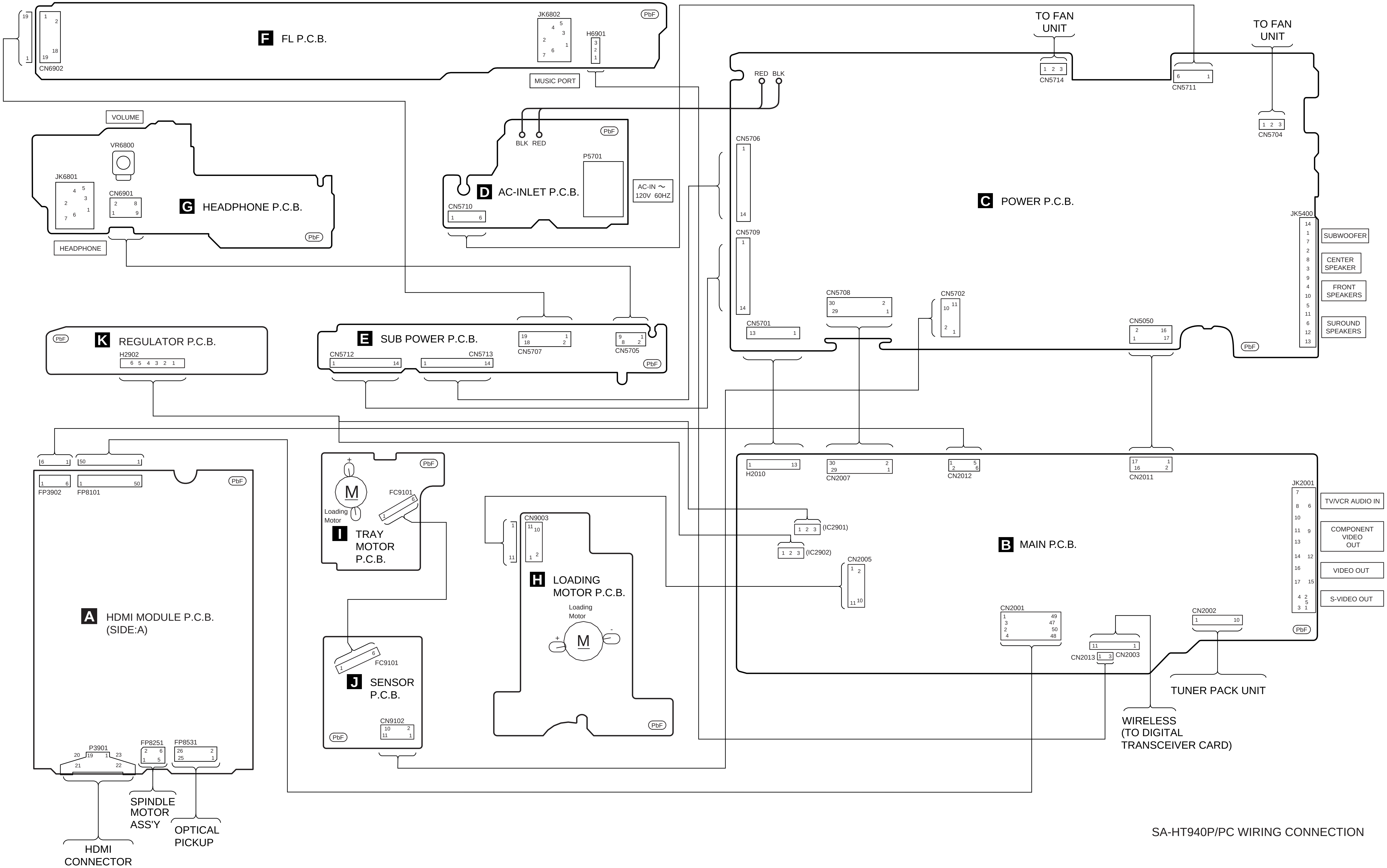
- The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.
- Do not use DualDisc in this unit as it may not possible to insert it correctly and it may get scratched or scraped.

Clean this unit with a soft, dry cloth.

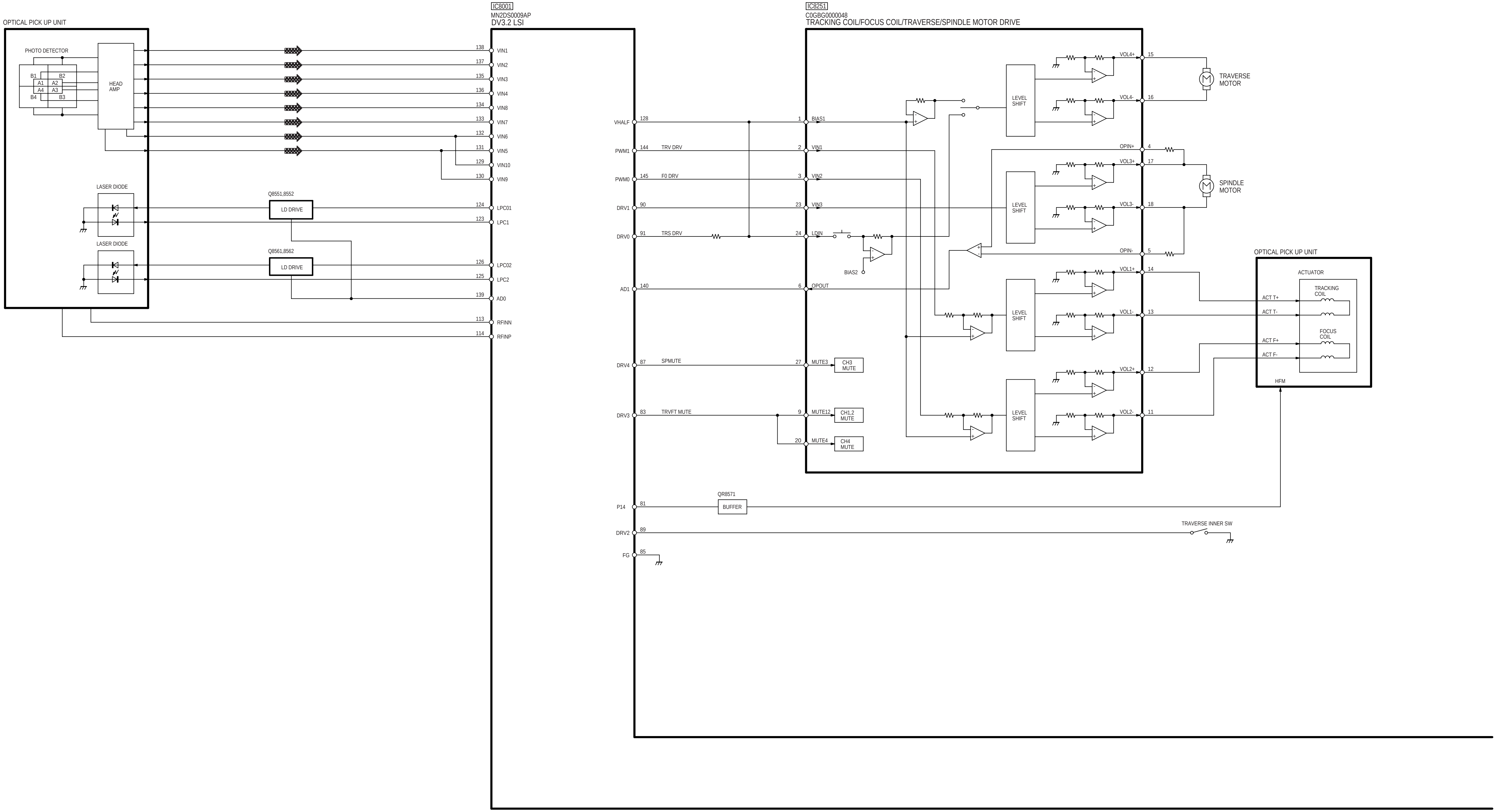
- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, carefully read the instructions that came with the cloth.

Do not use commercially available lens cleaners as they may cause malfunction. Cleaning of the lens is generally not neccessary although this depends on the operating environment.

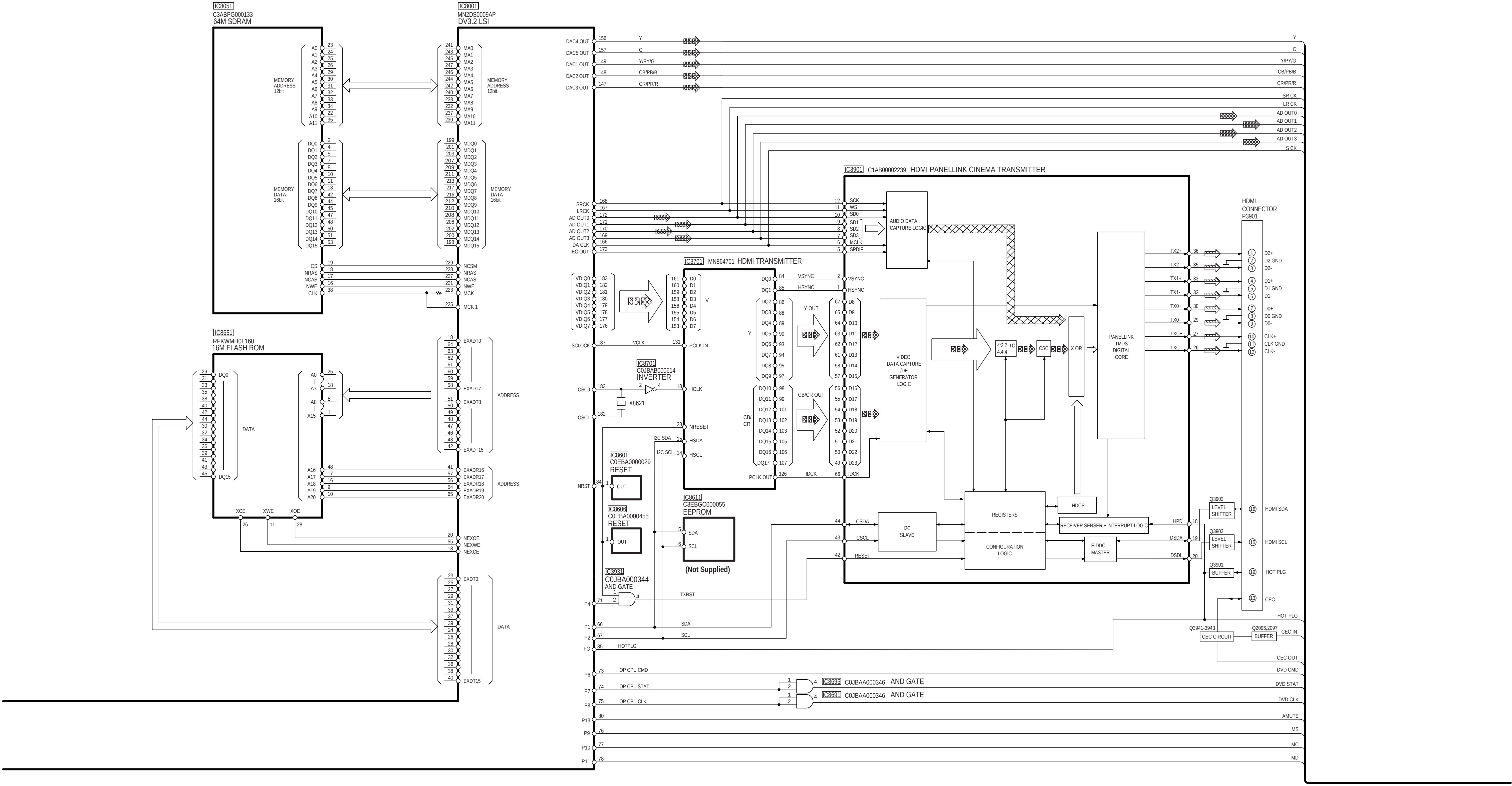
Before moving the unit, ensure the disc trays are empty. Failure to do so will risk severely damaging the disc and the unit.


F FL P.C.B.
CN6902
JK6802
H6901
MUSIC PORT
PbF
TO FAN UNIT
CN5714
CN5711
CN5704
RED BLK
C POWER P.C.B.
CN5706
CN5709
CN5701
CN5708
CN5702
CN5050
JK5400
SUBWOOFER
CENTER SPEAKER
FRONT SPEAKERS
SUROUND SPEAKERS
VOLUME
VR6800
JK6801
CN6901
G HEADPHONE P.C.B.
HEADPHONE
BLK RED
D AC-INLET P.C.B.
P5701
CN5710
AC-IN ~ 120V 60HZ
K REGULATOR P.C.B.
H2902
E SUB POWER P.C.B.
CN5712
CN5713
CN5707
CN5705
A HDMI MODULE P.C.B. (SIDE:A)
FP3902
FP8101
P3901
FP8251
FP8531
I TRAY MOTOR P.C.B.
M
Loading Motor
FC9101
J SENSOR P.C.B.
CN9102
H LOADING MOTOR P.C.B.
CN9003
B MAIN P.C.B.
H2010
CN2007
CN2012
CN2011
(IC2901)
(IC2902)
CN2005
CN2001
CN2013
CN2003
CN2002
JK2001
TV/VCR AUDIO IN
COMPONENT VIDEO OUT
VIDEO OUT
S-VIDEO OUT
TUNER PACK UNIT
WIRELESS (TO DIGITAL TRANSCEIVER CARD)
SPINDLE MOTOR ASS'Y
OPTICAL PICKUP
HDMI CONNECTOR

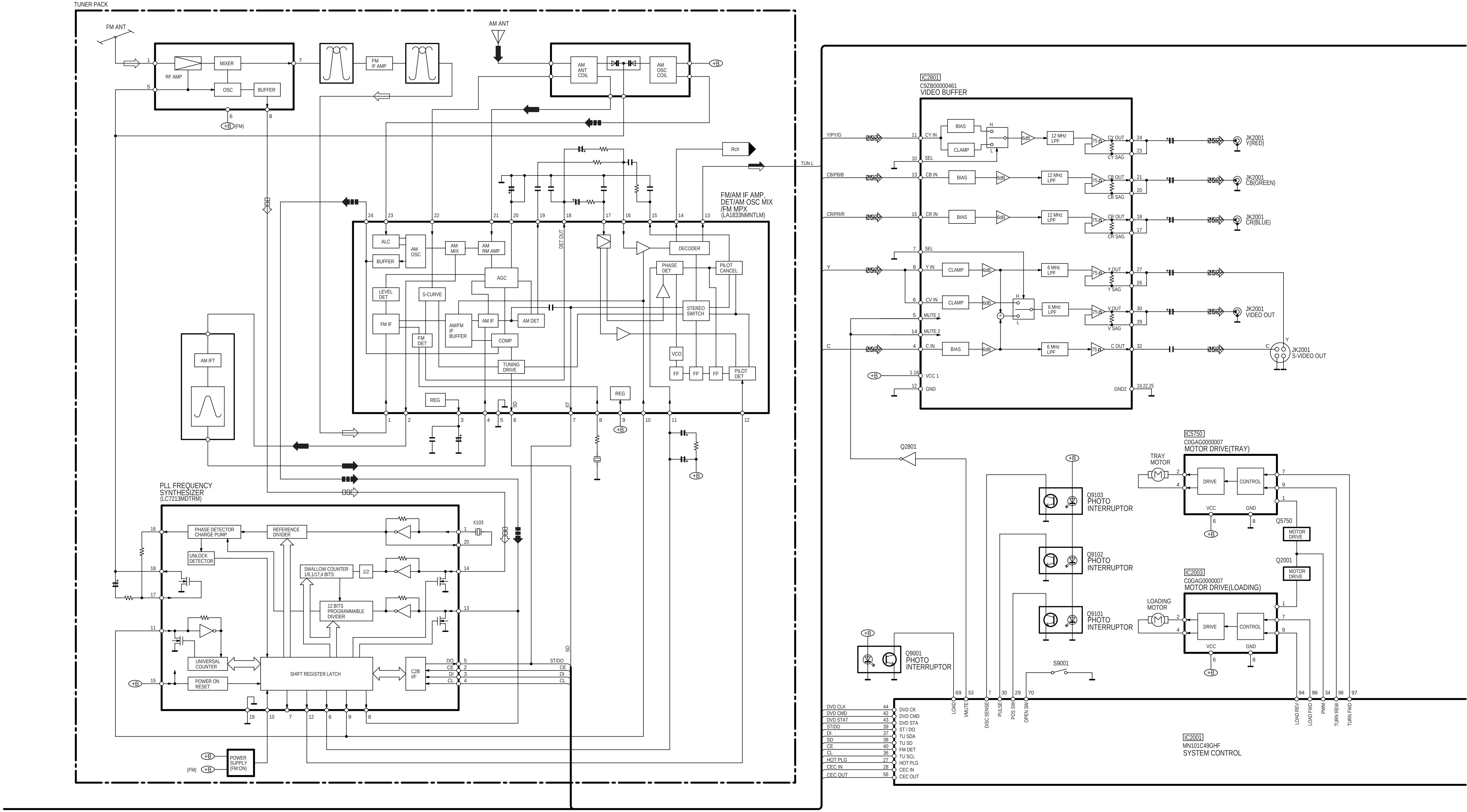
SA-HT940P/PC WIRING CONNECTION


OPTICAL PICK UP UNIT
PHOTO DETECTOR
B1
B2
A1
A2
A4
A3
B4
B3
HEAD AMP
LASER DIODE
LASER DIODE
Q8551,8552
LD DRIVE
Q8561,8562
LD DRIVE
IC8001
MN2DS0009AP
DV3.2 LSI
138 VIN1
137 VIN2
135 VIN3
136 VIN4
134 VIN8
133 VIN7
132 VIN6
131 VIN5
129 VIN10
130 VIN9
124 LPC01
123 LPC1
126 LPC02
125 LPC2
139 AD0
113 RFINN
114 RFINP
VHALF 128
PWM1 144 TRV DRV
PWM0 145 F0 DRV
DRV1 90
DRV0 91 TRS DRV
AD1 140
DRV4 87 SPMUTE
DRV3 83 TRVFT MUTE
P14 81
DRV2 89
FG 85
QR8571
BUFFER
IC8251
C0GBG0000048
TRACKING COIL/FOCUS COIL/TRAVERSE/SPINDLE MOTOR DRIVE
1 BIAS1
2 VIN1
3 VIN2
23 VIN3
24 LDIN
BIAS2
6 OPOUT
27 MUTE3
CH3 MUTE
9 MUTE12
CH1,2 MUTE
20 MUTE4
CH4 MUTE
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
VOL4+ 15
VOL4- 16
OPIN+ 4
VOL3+ 17
VOL3- 18
OPIN- 5
VOL1+ 14
VOL1- 13
VOL2+ 12
VOL2- 11
TRAVERSE MOTOR
SPINDLE MOTOR
OPTICAL PICK UP UNIT
ACTUATOR
TRACKING COIL
FOCUS COIL
ACT T+
ACT T-
ACT F+
ACT F-
HFM
TRAVERSE INNER SW

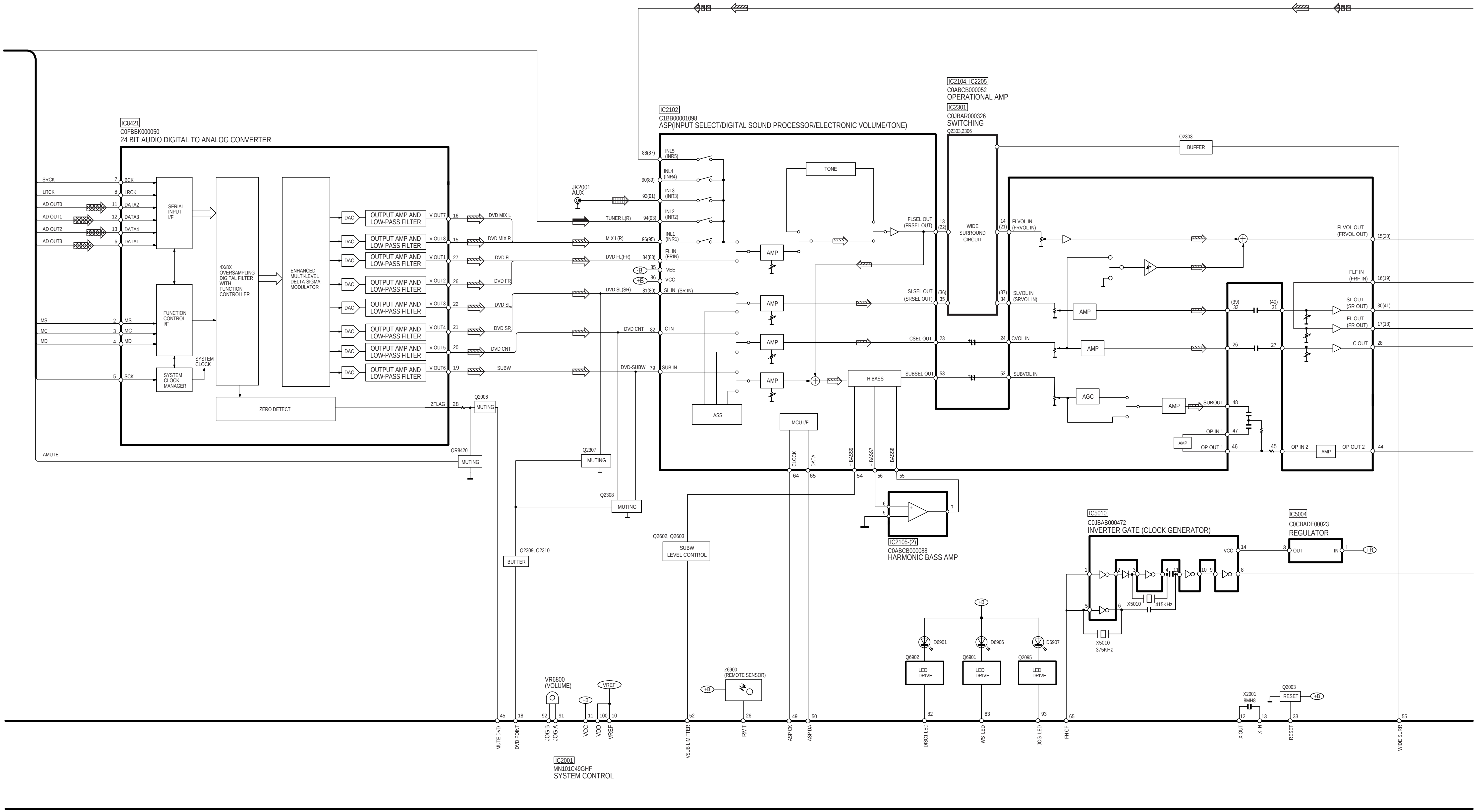
SA-HT940P/PC BLOCK DIAGRAM


IC8051
C3ABPG000133
64M SDRAM
MEMORY ADDRESS 12bit
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
MEMORY DATA 16bit
DQ0
DQ15
CS
NRAS
NCAS
NWE
CLK
IC8001
MN2DS0009AP
DV3.2 LSI
MA0
MA11
MDQ0
MDQ15
NCSM
NRAS
NCAS
NWE
MCK
MCK 1
DAC4 OUT
DAC5 OUT
DAC1 OUT
DAC2 OUT
DAC3 OUT
Y
C
Y/PY/G
CB/PB/B
CR/PR/R
SR CK
LR CK
AD OUT0
AD OUT1
AD OUT2
AD OUT3
S CK
SRCK
LRCK
AD OUT0
AD OUT1
AD OUT2
AD OUT3
DA CLK
IEC OUT
VDIQ0
VDIQ7
SCLOCK
OSC0
OSC1
NRST
P4
P1
P2
FG
P6
P7
P8
P13
P9
P10
P11
IC8651
RFKWMH0L160
16M FLASH ROM
DQ0
DQ15
DATA
A0
A7
A8
A15
A16
A17
A18
A19
A20
XCE
XWE
XOE
EXADT0
EXADT7
EXADT8
EXADT15
ADDRESS
EXADR16
EXADR17
EXADR18
EXADR19
EXADR20
NEXOE
NEXWE
NEXCE
EXDT0
EXDT15
DATA
IC3701
MN864701 HDMI TRANSMITTER
D0
D7
V
PCLK IN
HCLK
NRESET
HSDA
HSCL
DQ0
DQ1
VSYNC
HSYNC
Y
Y OUT
CB/CR
CB/CR OUT
DQ17
PCLK OUT
IDCK
VCLK
IC8701
C0JBAB000614
INVERTER
X8621
I2C SDA
I2C SCL
IC8601
C0EBA0000029
RESET
OUT
IC8606
C0EBA0000455
RESET
OUT
IC8611
C3EBGC000055
EEPROM
SDA
SCL
(Not Supplied)
IC3931
C0JBA000344
AND GATE
TXRST
SDA
SCL
HOTPLG
OP CPU CMD
OP CPU STAT
OP CPU CLK
IC8695 C0JBAA000346 AND GATE
IC8691 C0JBAA000346 AND GATE
IC3901 C1AB00002239 HDMI PANELLINK CINEMA TRANSMITTER
SCK
WS
SD0
SD1
SD2
SD3
MCLK
SPDIF
AUDIO DATA CAPTURE LOGIC
VSYNC
HSYNC
D8
D23
IDCK
VIDEO DATA CAPTURE /DE GENERATOR LOGIC
4:2:2 TO 4:4:4
CSC
X OR
PANELLINK TMDS DIGITAL CORE
HDCP
REGISTERS
CONFIGURATION LOGIC
I2C SLAVE
RECEIVER SENSER + INTERRUPT LOGIC
E-DDC MASTER
CSDA
CSCL
RESET
HPD
DSDA
DSDL
TX2+
TX2-
TX1+
TX1-
TX0+
TX0-
TXC+
TXC-
HDMI CONNECTOR P3901
D2+
D2 GND
D2-
D1+
D1 GND
D1-
D0+
D0 GND
D0-
CLK+
CLK GND
CLK-
Q3902
LEVEL SHIFTER
Q3903
LEVEL SHIFTER
Q3901
BUFFER
HDMI SDA
HDMI SCL
HOT PLG
CEC
HOT PLG
Q3941-3943
CEC CIRCUIT
Q2096,2097
BUFFER
CEC IN
CEC OUT
DVD CMD
DVD STAT
DVD CLK
AMUTE
MS
MC
MD

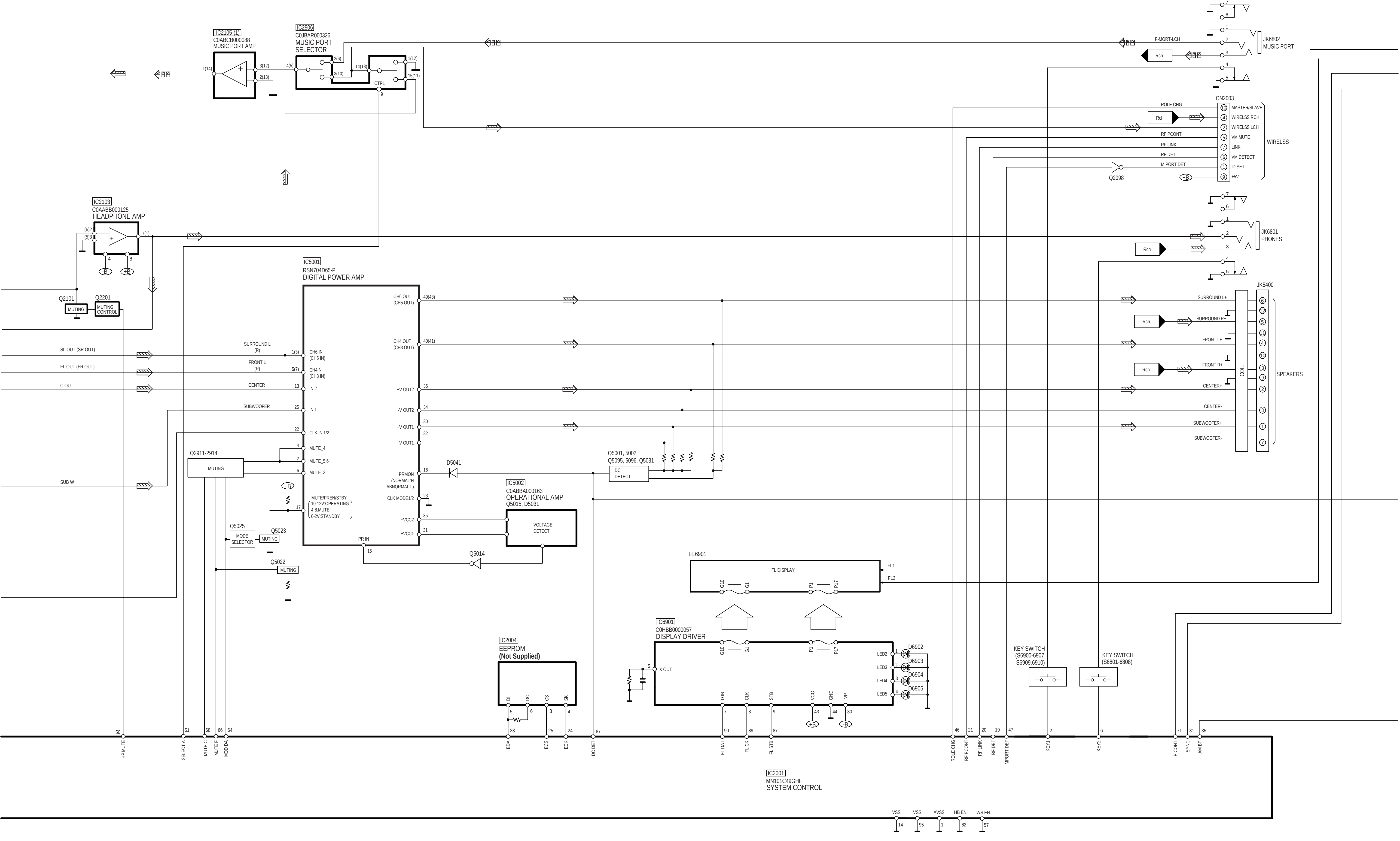
SA-HT940P/PC BLOCK DIAGRAM


TUNER PACK
FM ANT
RF AMP
MIXER
OSC
BUFFER
+B (FM)
FM IF AMP
AM ANT
AM ANT COIL
AM OSC COIL
+B
Rch
TUN L
FM/AM IF AMP, DET/AM OSC MIX /FM MPX
(LA1833NMNTLM)
ALC
BUFFER
AM OSC
AM MIX
AM RM AMP
AGC
LEVEL DET
S-CURVE
FM IF
FM DET
AM/FM IF BUFFER
AM IF
AM DET
COMP
TUNING DRIVE
DET OUT
DECODER
PHASE DET
PILOT CANCEL
STEREO SWITCH
VCO
FF
PILOT DET
REG
SD
ST
AM IFT
PLL FREQUENCY SYNTHESIZER
(LC7213MDTRM)
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
UNLOCK DETECTOR
X103
SWALLOW COUNTER 1/6,1/17,4 BITS
1/2
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
POWER ON RESET
C2B I/F
DO
CE
DI
CL
ST/DO
POWER SUPPLY (FM.ON)
(FM)
IC2801
C9ZB00000461
VIDEO BUFFER
Y/PY/G
CB/PB/B
CR/PR/R
Y
C
CY IN
SEL
CB IN
CR IN
Y IN
CV IN
MUTE 1
MUTE 2
C IN
VCC 1
GND
GND2
BIAS
CLAMP
H
L
6dB
12 MHz LPF
6 MHz LPF
75 Ω
CY OUT
CY SAG
CB OUT
CB SAG
CR OUT
CR SAG
Y OUT
Y SAG
V OUT
V SAG
C OUT
JK2001 Y(RED)
JK2001 CB(GREEN)
JK2001 CR(BLUE)
JK2001 VIDEO OUT
JK2001 S-VIDEO OUT
Q2801
IC5750
C0GAG0000007
MOTOR DRIVE(TRAY)
TRAY MOTOR
DRIVE
CONTROL
VCC
GND
Q5750
MOTOR DRIVE
Q2001
IC2003
C0GAG0000007
MOTOR DRIVE(LOADING)
LOADING MOTOR
Q9103 PHOTO INTERRUPTOR
Q9102 PHOTO INTERRUPTOR
Q9101 PHOTO INTERRUPTOR
Q9001 PHOTO INTERRUPTOR
S9001
LOAD
VMUTE
DISC SENSE
PULSE
POS SW
OPEN SW
LOAD REV
LOAD FWD
PWM
TURN REV
TURN FWD
DVD CLK
DVD CMD
DVD STAT
ST/DO
DI
SD
CE
CL
HOT PLG
CEC IN
CEC OUT
DVD CK
DVD STA
ST / DO
TU SDA
TU SD
FM DET
TU SCL
HOT PLG
CEC OUT
IC2001
MN101C49GHF
SYSTEM CONTROL

SA-HT940P/PC BLOCK DIAGRAM


IC8421
C0FBBK000050
24 BIT AUDIO DIGITAL TO ANALOG CONVERTER
SRCK
LRCK
AD OUT0
AD OUT1
AD OUT2
AD OUT3
BCK
LRCK
DATA2
DATA3
DATA4
DATA1
SERIAL INPUT I/F
4X/8X OVERSAMPLING DIGITAL FILTER WITH FUNCTION CONTROLLER
ENHANCED MULTI-LEVEL DELTA-SIGMA MODULATOR
DAC
OUTPUT AMP AND LOW-PASS FILTER
V OUT7
V OUT8
V OUT1
V OUT2
V OUT3
V OUT4
V OUT5
V OUT6
DVD MIX L
DVD MIX R
DVD FL
DVD FR
DVD SL
DVD SR
DVD CNT
SUBW
MS
MC
MD
SCK
FUNCTION CONTROL I/F
SYSTEM CLOCK
SYSTEM CLOCK MANAGER
ZERO DETECT
ZFLAG
Q2006
MUTING
QR8420
MUTING
AMUTE
Q2307
MUTING
Q2308
MUTING
Q2309, Q2310
BUFFER
JK2001
AUX
IC2102
C1BB00001098
ASP(INPUT SELECT/DIGITAL SOUND PROCESSOR/ELECTRONIC VOLUME/TONE)
88(87)
90(89)
92(91)
94(93)
96(95)
84(83)
85
86
81(80)
82
79
INL5 (INR5)
INL4 (INR4)
INL3 (INR3)
INL2 (INR2)
INL1 (INR1)
FL IN (FRIN)
VEE
VCC
SL IN (SR IN)
C IN
SUB IN
TUNER L(R)
MIX L(R)
DVD FL(FR)
DVD SL(SR)
DVD CNT
DVD-SUBW
-B
+B
TONE
AMP
ASS
H BASS
MCU I/F
FLSEL OUT (FRSEL OUT)
SLSEL OUT (SRSEL OUT)
CSEL OUT
SUBSEL OUT
13 (22)
(36) 35
23
53
CLOCK
DATA
H BASS9
H BASS7
H BASS8
64
65
54
56
55
IC2104, IC2205
C0ABCB000052
OPERATIONAL AMP
IC2301
C0JBAR000326
SWITCHING
Q2303,2306
WIDE SURROUND CIRCUIT
Q2303
BUFFER
14 (21)
(37) 34
24
52
FLVOL IN (FRVOL IN)
SLVOL IN (SRVOL IN)
CVOL IN
SUBVOL IN
AMP
AGC
SUBOUT
48
OP IN 1
47
OP OUT 1
46
45
OP IN 2
OP OUT 2
44
(39) 32
(40) 31
26
27
FLVOL OUT (FRVOL OUT)
15(20)
FLF IN (FRF IN)
16(19)
SL OUT (SR OUT)
30(41)
FL OUT (FR OUT)
17(18)
C OUT
28
IC2105-(2)
C0ABCB000088
HARMONIC BASS AMP
Q2602, Q2603
SUBW LEVEL CONTROL
IC5010
C0JBAB000472
INVERTER GATE (CLOCK GENERATOR)
VCC
X5010
415KHz
X5010
375KHz
IC5004
C0CBADE00023
REGULATOR
OUT
IN
+B
D6901
D6906
D6907
Q6902
Q6901
Q2095
LED DRIVE
VR6800 (VOLUME)
VREF+
Z6900 (REMOTE SENSOR)
X2001
8MH8
Q2003
RESET
MUTE DVD
DVD POINT
JOG B
JOG A
VCC
VDD
VREF
VSUB LIMITTER
RMT
ASP CK
ASP DA
DISC1 LED
WS LED
JOG LED
FH OP
X OUT
X IN
RESET
WIDE SURR
45
18
92
91
11
100
10
52
26
49
50
82
83
93
65
12
13
33
55
IC2001
MN101C49GHF
SYSTEM CONTROL

SA-HT940P/PC BLOCK DIAGRAM


IC2105-(1)
C0ABCB000088
MUSIC PORT AMP
IC2906
C0JBAR000326
MUSIC PORT SELECTOR
CTRL
F-MORT-LCH
JK6802
MUSIC PORT
Rch
CN2003
ROLE CHG
MASTER/SLAVE
WIRELSS RCH
WIRELSS LCH
RF PCONT
VM MUTE
RF LINK
LINK
RF DET
VM DETECT
M PORT DET
ID SET
+5V
WIRELSS
Q2098
+B
IC2103
C0AABB000125
HEADPHONE AMP
-B
JK6801
PHONES
Q2101
MUTING
Q2201
MUTING CONTROL
IC5001
RSN704D65-P
DIGITAL POWER AMP
CH6 OUT (CH5 OUT)
CH4 OUT (CH3 OUT)
CH6 IN (CH5 IN)
CH4IN (CH3 IN)
IN 2
IN 1
CLK IN 1/2
MUTE_4
MUTE_5.6
MUTE_3
+V OUT2
-V OUT2
+V OUT1
-V OUT1
PRMON (NORMAL:H ABNORMAL:L)
CLK MODE1/2
+VCC2
+VCC1
PR IN
MUTE/PREN/STBY
10-12V:OPERATING
4-8:MUTE
0-2V:STANDBY
SL OUT (SR OUT)
FL OUT (FR OUT)
C OUT
SUB W
SURROUND L (R)
FRONT L (R)
CENTER
SUBWOOFER
Q2911-2914
MUTING
Q5025
MODE SELECTOR
Q5023
MUTING
Q5022
MUTING
D5041
Q5001, 5002
Q5095, 5096, Q5031
DC DETECT
IC5002
C0ABBA000163
OPERATIONAL AMP
Q5015, D5031
VOLTAGE DETECT
Q5014
JK5400
SURROUND L+
SURROUND R+
FRONT L+
FRONT R+
CENTER+
CENTER-
SUBWOOFER+
SUBWOOFER-
COIL
SPEAKERS
FL6901
FL DISPLAY
FL1
FL2
G10
G1
P1
P17
IC6901
C0HBB0000057
DISPLAY DRIVER
X OUT
LED2
LED3
LED4
LED5
D6902
D6903
D6904
D6905
D IN
CLK
STB
VCC
GND
-VP
IC2004
EEPROM
(Not Supplied)
DI
DO
CS
SK
KEY SWITCH (S6900-6907, S6909,6910)
KEY SWITCH (S6801-6808)
HP MUTE
SELECT A
MUTE C
MUTE F
MOD DA
EDA
ECS
ECK
DC DET
FL DAT
FL CK
FL STB
ROLE CHG
RF PCONT
RF LINK
RF DET
MPORT DET
KEY1
KEY2
P CONT
SYNC
AM BP
IC2001
MN101C49GHF
SYSTEM CONTROL
VSS
VSS
AVSS
HB EN
WS EN

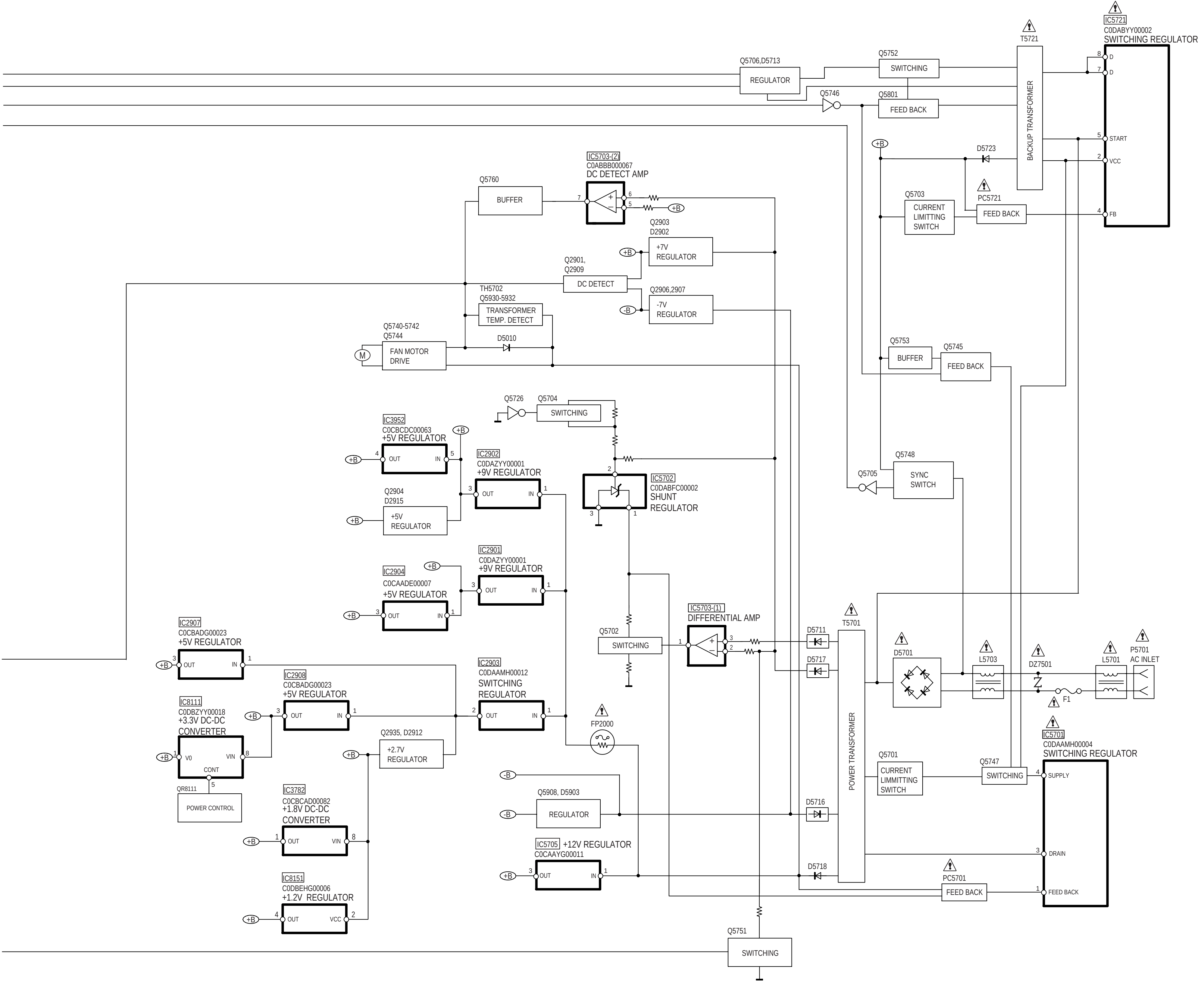
SA-HT940P/PC BLOCK DIAGRAM

SIGNAL LINES

⇨ : MAIN SIGNAL LINE
⇨ : FM SIGNAL LINE
⇨ : FM OSC SIGNAL LINE
⇨ : AUX SIGNAL LINE
➡ : AM SIGNAL LINE
➡ : AM OSC SIGNAL LINE
⇨ : FM /AM SIGNAL LINE
⇨ : MUSIC PORT SIGNAL LINE
⇨ : DVD AUDIO SIGNAL LINE
⇨ : DVD VIDEO SIGNAL LINE
⇨ : CD-DA (AUDIO /VIDEO) SIGNAL LINE

( ) Indicates the Pin No. of Right Channel.

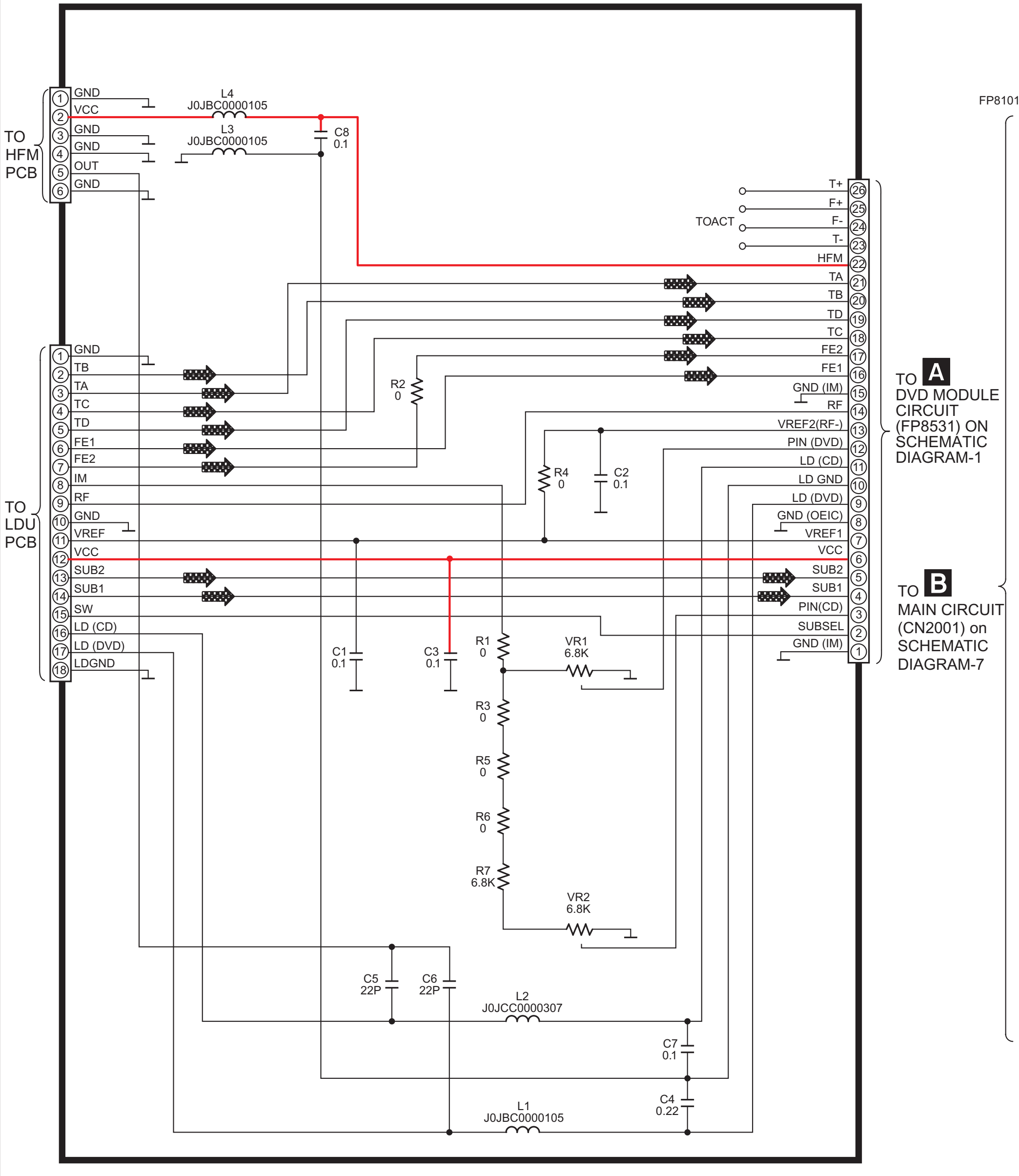
NOTE : Signal Lines are applicable to the Left Channel only.


Q5706,D5713
REGULATOR
Q5752
SWITCHING
Q5746
Q5801
FEED BACK
T5721
BACKUP TRANSFORMER
IC5721
C0DABYY00002
SWITCHING REGULATOR
8 D
7 D
5 START
2 VCC
4 FB
+B
D5723
Q5703
CURRENT LIMITTING SWITCH
PC5721
FEED BACK
IC5703-(2)
C0ABBB000067
DC DETECT AMP
7
6
5
+B
Q5760
BUFFER
Q2903
D2902
+B
+7V REGULATOR
Q2901,
Q2909
DC DETECT
Q2906,2907
-B
-7V REGULATOR
TH5702
Q5930-5932
TRANSFORMER TEMP. DETECT
Q5740-5742
Q5744
M
FAN MOTOR DRIVE
D5010
Q5753
BUFFER
Q5745
FEED BACK
Q5726
Q5704
SWITCHING
IC3952
C0CBCDC00063
+5V REGULATOR
+B
4 OUT
IN 5
+B
IC2902
C0DAZYY00001
+9V REGULATOR
3 OUT
IN 1
Q2904
D2915
+B
+5V REGULATOR
IC5702
C0DABFC00002
SHUNT REGULATOR
2
3
1
Q5748
Q5705
SYNC SWITCH
IC2901
C0DAZYY00001
+9V REGULATOR
+B
3 OUT
IN 1
IC2904
C0CAADE00007
+5V REGULATOR
+B
3 OUT
IN 1
IC2907
C0CBADG00023
+5V REGULATOR
+B
3 OUT
IN 1
Q5702
SWITCHING
IC5703-(1)
DIFFERENTIAL AMP
1
3
2
D5711
D5717
T5701
POWER TRANSFORMER
D5701
L5703
DZ7501
Z
F1
L5701
P5701
AC INLET
IC2908
C0CBADG00023
+5V REGULATOR
+B
3 OUT
IN 1
IC8111
C0DBZYY00018
+3.3V DC-DC CONVERTER
+B
1 V0
VIN 8
CONT
5
QR8111
POWER CONTROL
IC2903
C0DAAMH00012
SWITCHING REGULATOR
2 OUT
IN 1
FP2000
Q2935, D2912
+B
+2.7V REGULATOR
-B
Q5908, D5903
-B
REGULATOR
D5716
Q5701
CURRENT LIMMITTING SWITCH
Q5747
SWITCHING
IC5701
C0DAAMH00004
SWITCHING REGULATOR
4 SUPPLY
3 DRAIN
1 FEED BACK
IC3782
C0CBCAD00082
+1.8V DC-DC CONVERTER
+B
1 OUT
VIN 8
IC5705
+12V REGULATOR
C0CAAYG00011
+B
3 OUT
IN 1
D5718
PC5701
FEED BACK
IC8151
C0DBEHG00006
+1.2V REGULATOR
+B
4 OUT
VCC 2
Q5751
SWITCHING

SA-HT940P/PC BLOCK DIAGRAM

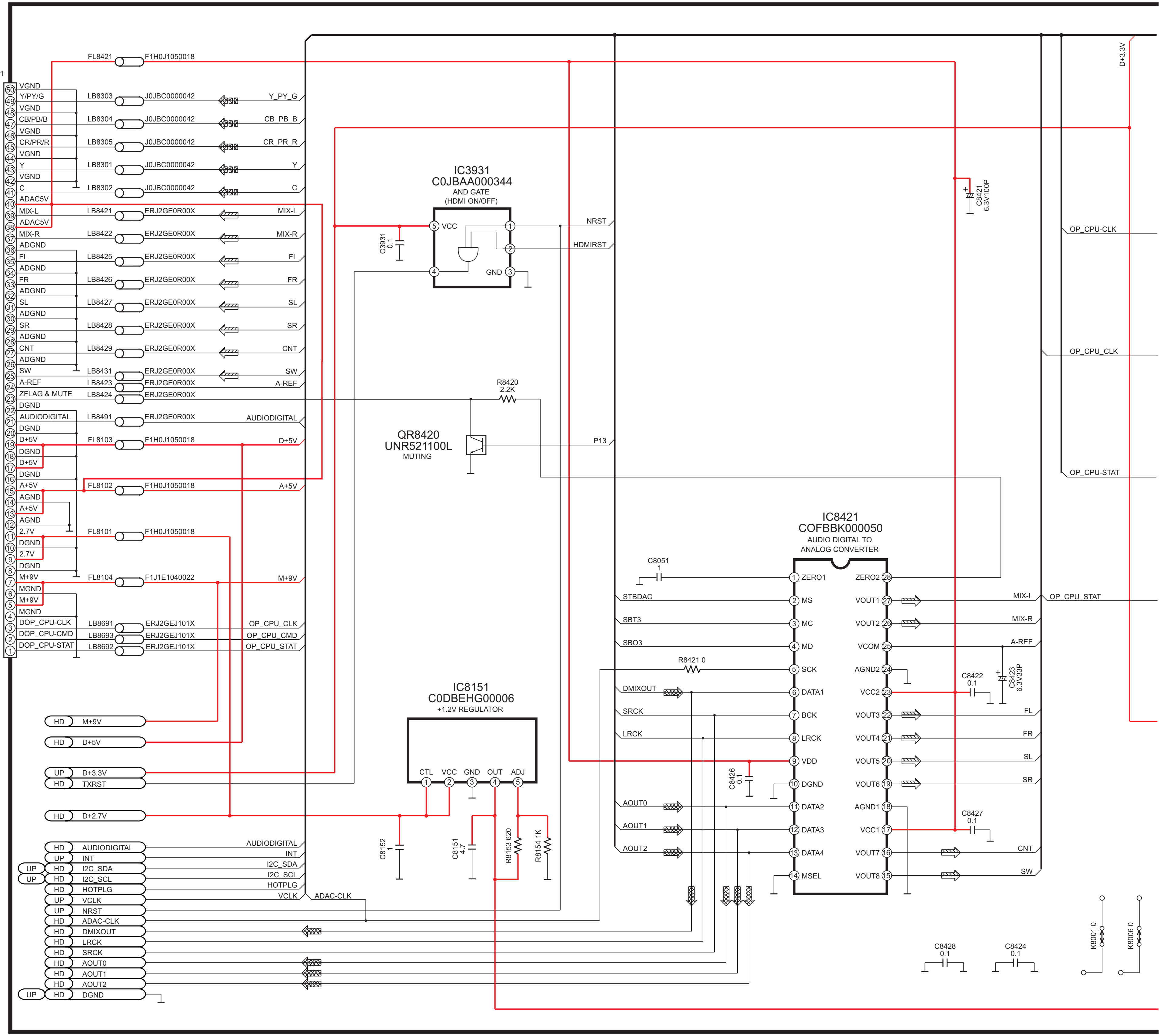
SCHEMATIC DIAGRAM-1

OPTICAL PICKUP UNIT CIRCUIT


TO HFM PCB
GND
VCC
GND
GND
OUT
GND
L4 J0JBC0000105
L3 J0JBC0000105
C8 0.1
TO LDU PCB
GND
TB
TA
TC
TD
FE1
FE2
IM
RF
GND
VREF
VCC
SUB2
SUB1
SW
LD (CD)
LD (DVD)
LDGND
TOACT
T+
F+
F-
T-
HFM
TA
TB
TD
TC
FE2
FE1
GND (IM)
RF
VREF2(RF-)
PIN (DVD)
LD (CD)
LD GND
LD (DVD)
GND (OEIC)
VREF1
VCC
SUB2
SUB1
PIN(CD)
SUBSEL
GND (IM)
R2 0
R4 0
C2 0.1
C1 0.1
C3 0.1
R1 0
VR1 6.8K
R3 0
R5 0
R6 0
R7 6.8K
VR2 6.8K
C5 22P
C6 22P
L2 J0JCC0000307
C7 0.1
C4 0.22
L1 J0JBC0000105
TO A DVD MODULE CIRCUIT (FP8531) ON SCHEMATIC DIAGRAM-1
TO B MAIN CIRCUIT (CN2001) on SCHEMATIC DIAGRAM-7

A HDMI MODULE CIRCUIT (D2)

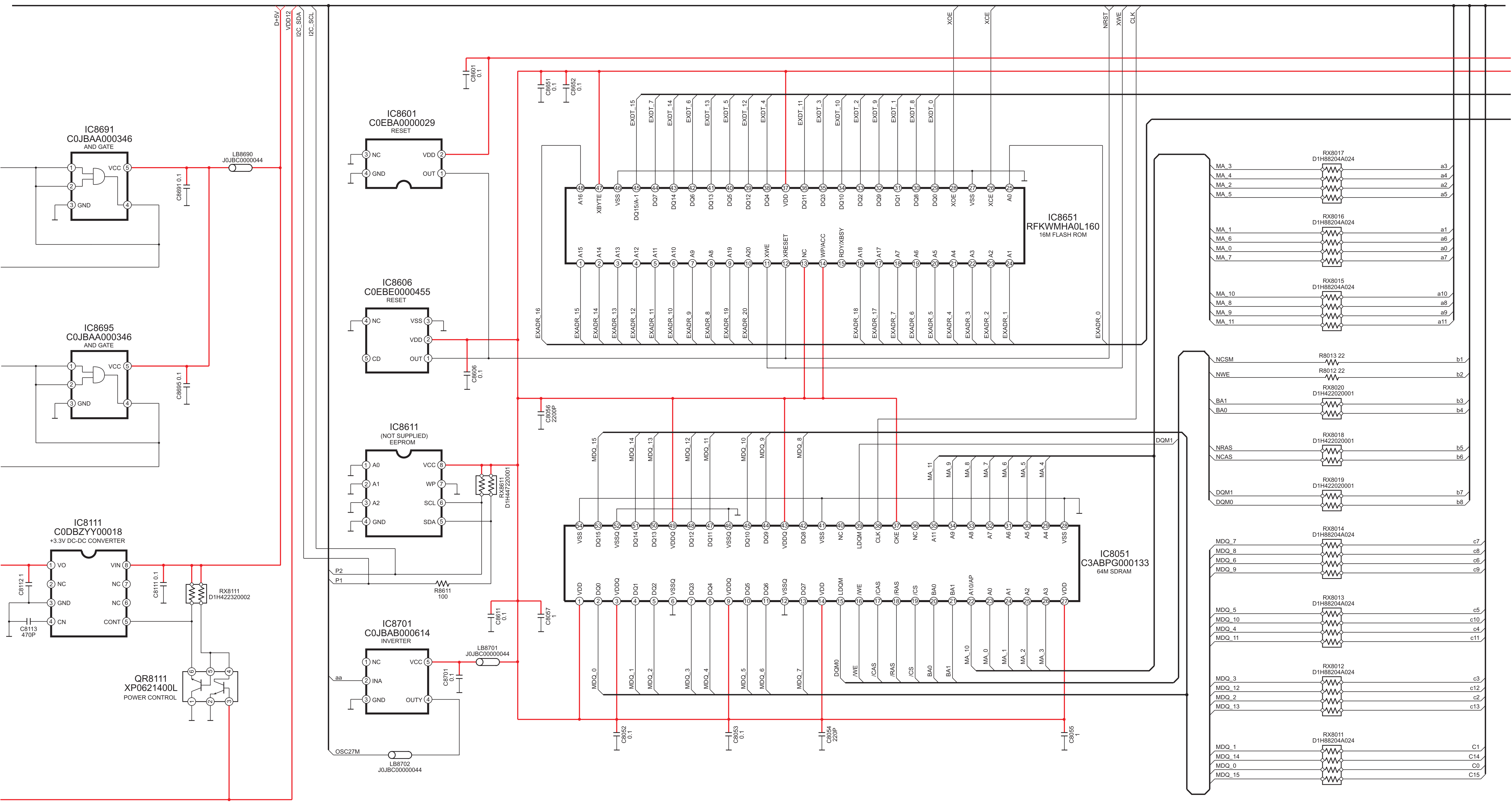
⇨ :MAIN SIGNAL LINE ⇨ :DVD(VIDEO) SIGNAL LINE ⇨ :DVD(AUDIO) SIGNAL LINE — :+B SIGNAL LINE


FP8101
VGND
Y/PY/G
VGND
CB/PB/B
VGND
CR/PR/R
VGND
Y
VGND
C
ADAC5V
MIX-L
ADAC5V
MIX-R
ADGND
FL
ADGND
FR
ADGND
SL
ADGND
SR
ADGND
CNT
ADGND
SW
A-REF
ZFLAG & MUTE
DGND
AUDIODIGITAL
DGND
D+5V
DGND
D+5V
DGND
A+5V
AGND
A+5V
AGND
2.7V
DGND
2.7V
DGND
M+9V
MGND
M+9V
MGND
DOP_CPU-CLK
DOP_CPU-CMD
DOP_CPU-STAT
FL8421 F1H0J1050018
LB8303 J0JBC0000042 Y_PY_G
LB8304 J0JBC0000042 CB_PB_B
LB8305 J0JBC0000042 CR_PR_R
LB8301 J0JBC0000042 Y
LB8302 J0JBC0000042 C
LB8421 ERJ2GE0R00X MIX-L
LB8422 ERJ2GE0R00X MIX-R
LB8425 ERJ2GE0R00X FL
LB8426 ERJ2GE0R00X FR
LB8427 ERJ2GE0R00X SL
LB8428 ERJ2GE0R00X SR
LB8429 ERJ2GE0R00X CNT
LB8431 ERJ2GE0R00X SW
LB8423 ERJ2GE0R00X A-REF
LB8424 ERJ2GE0R00X
LB8491 ERJ2GE0R00X AUDIODIGITAL
FL8103 F1H0J1050018 D+5V
FL8102 F1H0J1050018 A+5V
FL8101 F1H0J1050018
FL8104 F1J1E1040022 M+9V
LB8691 ERJ2GEJ101X OP_CPU_CLK
LB8693 ERJ2GEJ101X OP_CPU_CMD
LB8692 ERJ2GEJ101X OP_CPU_STAT
IC3931 C0JBAA000344 AND GATE (HDMI ON/OFF)
VCC
GND
NRST
HDMIRST
C3931 0.1
C8421 6.3V100P
D+3.3V
R8420 2.2K
QR8420 UNR521100L MUTING
P13
OP_CPU-CLK
OP_CPU_CLK
OP_CPU-STAT
OP_CPU_STAT
IC8421 C0FBBK000050 AUDIO DIGITAL TO ANALOG CONVERTER
C8051 1
STBDAC
SBT3
SBO3
R8421 0
DMIXOUT
SRCK
LRCK
AOUT0
AOUT1
AOUT2
ZERO1
MS
MC
MD
SCK
DATA1
BCK
LRCK
VDD
DGND
DATA2
DATA3
DATA4
MSEL
ZERO2
VOUT1
VOUT2
VCOM
AGND2
VCC2
VOUT3
VOUT4
VOUT5
VOUT6
AGND1
VCC1
VOUT7
VOUT8
MIX-L
MIX-R
A-REF
FL
FR
SL
SR
CNT
SW
C8422 0.1
C8423 6.3V33P
C8426 0.1
C8427 0.1
IC8151 C0DBEHG00006 +1.2V REGULATOR
CTL
VCC
GND
OUT
ADJ
C8152 1
C8151 4.7
R8153 620
R8154 1K
HD M+9V
HD D+5V
UP HD D+3.3V
HD TXRST
HD D+2.7V
HD AUDIODIGITAL
UP INT
UP HD I2C_SDA
UP HD I2C_SCL
HD HOTPLG
UP VCLK
UP NRST
HD ADAC-CLK
HD DMIXOUT
HD LRCK
HD SRCK
HD AOUT0
HD AOUT1
HD AOUT2
UP HD DGND
AUDIODIGITAL
INT
I2C_SDA
I2C_SCL
HOTPLG
VCLK
ADAC-CLK
C8428 0.1
C8424 0.1
K8001 0
K8006 0

SCHEMATIC DIAGRAM-2

A HDMI MODULE CIRCUIT (D2)

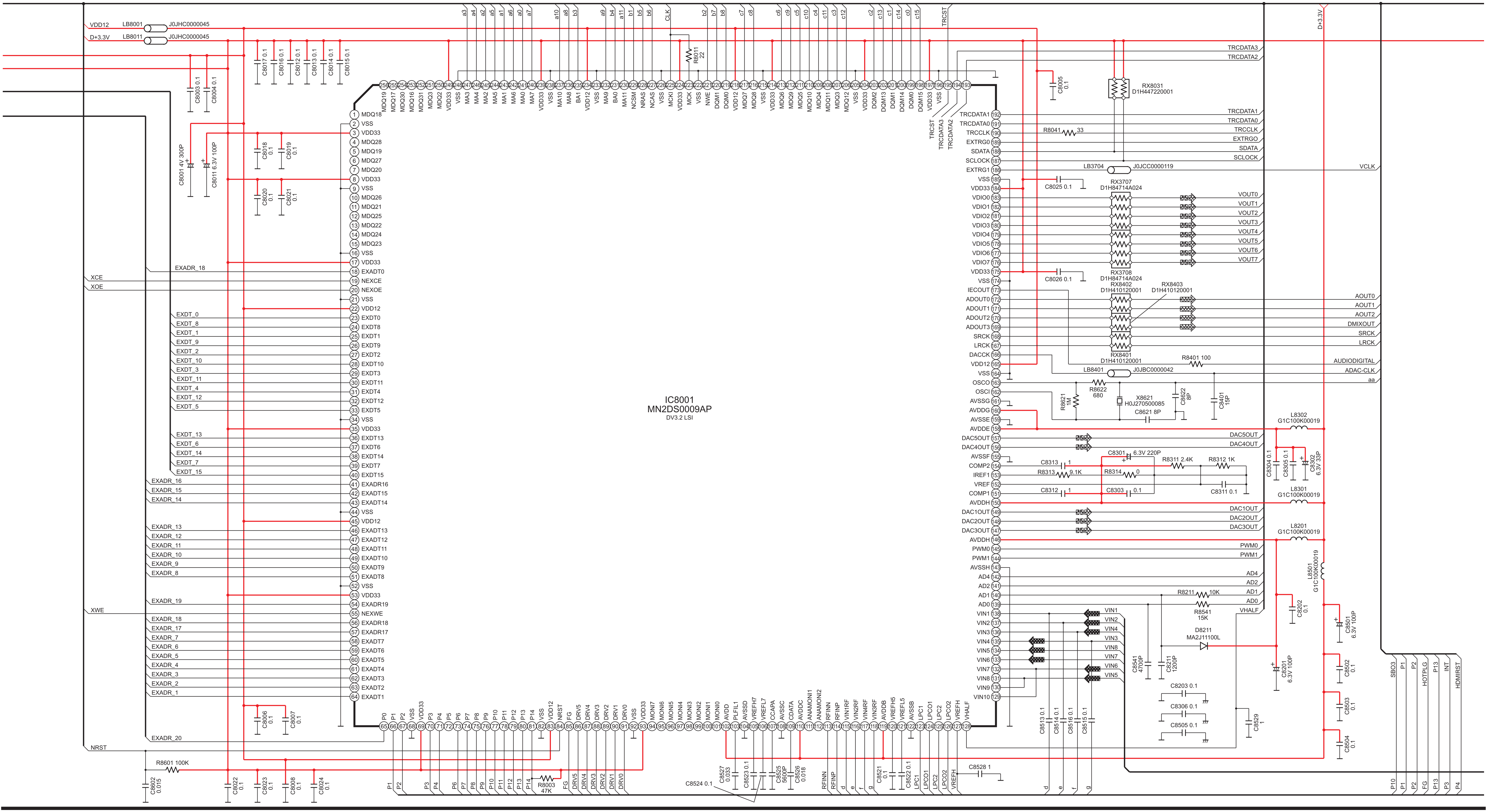
:+B SIGNAL LINE


D+5V
VDD12
I2C_SDA
I2C_SCL
XOE
XCE
NRST
XWE
CLK
IC8691
C0JBAA000346
AND GATE
LB8690
J0JBC0000044
C8691 0.1
IC8695
C0JBAA000346
AND GATE
C8695 0.1
IC8601
C0EBA0000029
RESET
C8601 0.1
C8651 0.1
C8652 0.1
IC8606
C0EBE0000455
RESET
C8606 0.1
IC8611
(NOT SUPPLIED)
EEPROM
RX8611
D1H447220001
IC8111
C0DBZYY00018
+3.3V DC-DC CONVERTER
C8112 1
C8113 470P
C8111 0.1
RX8111
D1H422320002
QR8111
XP0621400L
POWER CONTROL
P2
P1
R8611
100
C8611 0.1
C8057 1
IC8701
C0JBAB000614
INVERTER
LB8701
J0JBC00000044
C8701 0.1
aa
OSC27M
LB8702
J0JBC00000044
C8056 2200P
IC8651
RFKWMHA0L160
16M FLASH ROM
IC8051
C3ABPG000133
64M SDRAM
DQM1
C8052 0.1
C8053 0.1
C8054 220P
C8055 1
RX8017
D1H88204A024
RX8016
D1H88204A024
RX8015
D1H88204A024
R8013 22
R8012 22
RX8020
D1H422020001
RX8018
D1H422020001
RX8019
D1H422020001
RX8014
D1H88204A024
RX8013
D1H88204A024
RX8012
D1H88204A024
RX8011
D1H88204A024

SCHEMATIC DIAGRAM-3

A HDMI MODULE CIRCUIT (D2)

:CD-DA SIGNAL LINE :DVD(VIDEO) SIGNAL LINE :DVD(AUDIO) SIGNAL LINE :+B SIGNAL LINE



IC8001
MN2DS0009AP
DV3.2 LSI
VDD12
D+3.3V
LB8001 J0JHC0000045
LB8011 J0JHC0000045
C8001 4V 300P
C8011 6.3V 100P
C8003 0.1
C8004 0.1
C8017 0.1
C8016 0.1
C8012 0.1
C8013 0.1
C8014 0.1
C8015 0.1
C8018 0.1
C8019 0.1
C8020 0.1
C8021 0.1
R8011 22
C8005 0.1
RX8031 D1H447220001
R8041 33
LB3704 J0JCC0000119
C8025 0.1
RX3707 D1H84714A024
RX3708 D1H84714A024
C8026 0.1
RX8402 D1H410120001
RX8403 D1H410120001
RX8401 D1H410120001
R8401 100
LB8401 J0JBC0000042
R8622 680
R8621 1M
X8621 H0J2700500085
C8621 8P
C8622 8P
C8401 15P
L8302 G1C100K00019
L8301 G1C100K00019
L8201 G1C100K00019
L8501 G1C100K00019
C8301 6.3V 220P
C8313 1
R8313 9.1K
R8314 0
R8311 2.4K
R8312 1K
C8312 1
C8303 0.1
C8311 0.1
C8304 0.1
C8305 0.1
C8302 6.3V 33P
R8211 10K
R8541 15K
D8211 MA2J11100L
C8202 0.1
C8501 6.3V 100P
C8201 6.3V 100P
C8502 0.1
C8503 0.1
C8504 0.1
C8541 4700P
C8211 1200P
C8203 0.1
C8306 0.1
C8505 0.1
C8529 1
C8513 0.1
C8514 0.1
C8516 0.1
C8515 0.1
C8528 1
C8527 0.033
C8523 0.1
C8524 0.1
C8525 5600P
C8526 0.018
C8521 0.1
C8522 0.1
R8003 47K
C8006 0.1
C8007 0.1
C8022 0.1
C8023 0.1
C8008 0.1
C8024 0.1
R8601 100K
C8602 0.015
XCE
XOE
XWE
NRST
TRCDATA3
TRCDATA2
TRCDATA1
TRCDATA0
TRCCLK
EXTRG0
SDATA
SCLOCK
VCLK
VOUT0
VOUT1
VOUT2
VOUT3
VOUT4
VOUT5
VOUT6
VOUT7
AOUT0
AOUT1
AOUT2
DMIXOUT
SRCK
LRCK
AUDIODIGITAL
ADAC-CLK
aa
DAC5OUT
DAC4OUT
DAC1OUT
DAC2OUT
DAC3OUT
PWM0
PWM1
AD4
AD2
AD1
AD0
VHALF
VIN1
VIN2
VIN4
VIN3
VIN8
VIN7
VIN6
VIN5
SBO3
P1
P2
HOTPLG
P13
INT
HDMIRST
P10
FG
P3
P4

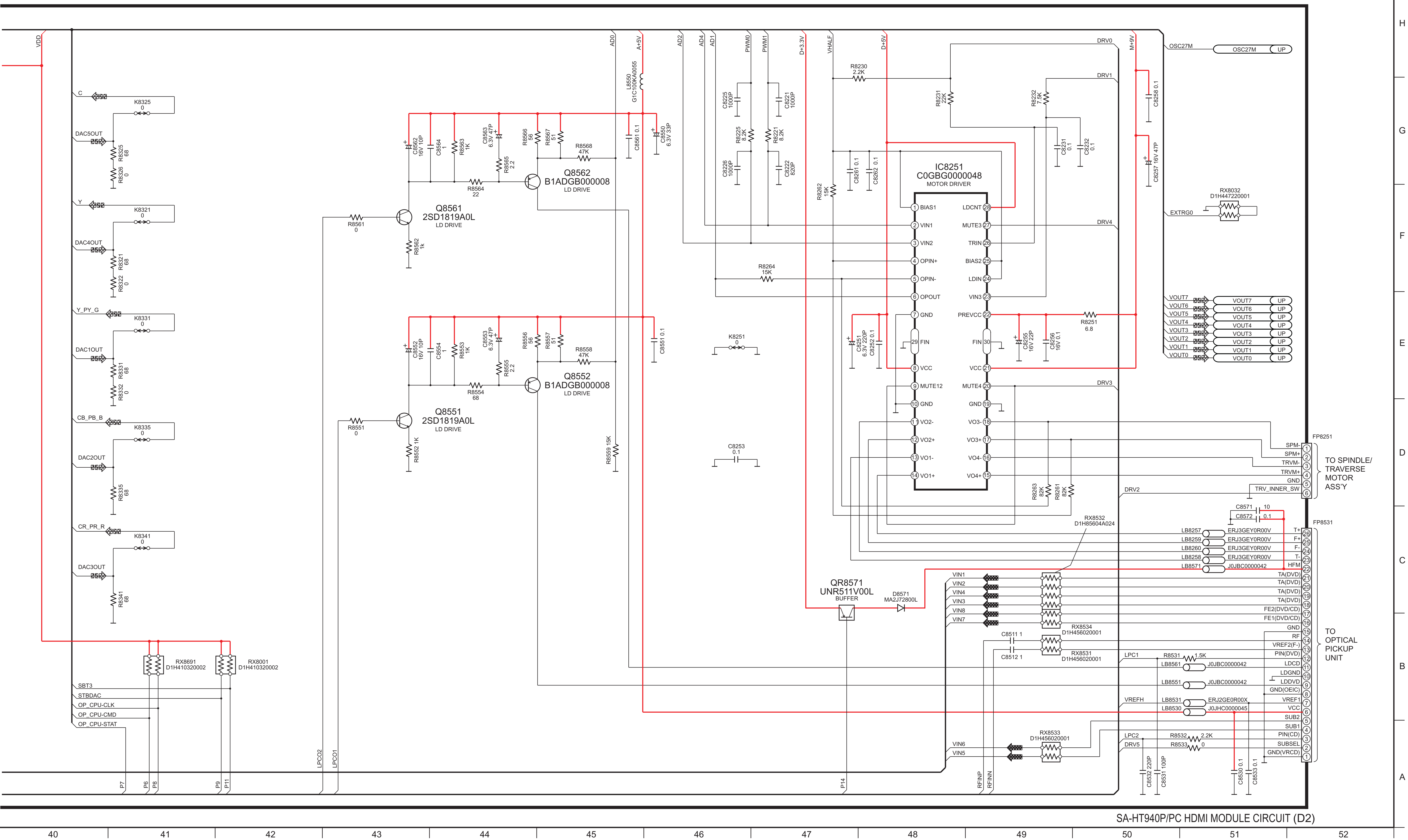
SA-HT940P/PC HDMI MODULE CIRCUIT (D2)

27 28 29 30 31 32 33 34 35 36 37 38 39

SCHEMATIC DIAGRAM-4

A HDMI MODULE CIRCUIT (D2)

▨ :CD-DA SIGNAL LINE ▨ :DVD(VIDEO) SIGNAL LINE — :+B SIGNAL LINE


VDD
C
K8325 0
DAC5OUT
R8325 68
R8326 0
Y
K8321 0
DAC4OUT
R8321 68
R8322 0
Y_PY_G
K8331 0
DAC1OUT
R8331 68
R8332 0
CB_PB_B
K8335 0
DAC2OUT
R8335 68
CR_PR_R
K8341 0
DAC3OUT
R8341 68
RX8691 D1H410320002
RX8001 D1H410320002
SBT3
STBDAC
OP_CPU-CLK
OP_CPU-CMD
OP_CPU-STAT
P7
P6
P8
P9
P11
LPCO2
LPCO1
C8562 16V 10P
C8564 1
R8563 1K
C8563 6.3V 47P
R8565 2.2
R8566 56
R8567 51
R8568 47K
R8564 22
Q8562 B1ADGB000008 LD DRIVE
Q8561 2SD1819A0L LD DRIVE
R8561 0
R8562 1k
C8561 0.1
C8550 6.3V 33P
L8550 G1C100KA0055
C8552 16V 10P
C8554 1
R8553 1K
C8553 6.3V 47P
R8555 2.2
R8556 56
R8557 51
R8558 47K
R8554 68
Q8552 B1ADGB000008 LD DRIVE
Q8551 2SD1819A0L LD DRIVE
R8551 0
R8552 1K
C8551 0.1
R8559 15K
AD0
A+5V
AD2
AD4
AD1
PWM0
PWM1
D+3.3V
VHALF
D+5V
C8225 1000P
C8221 1000P
R8225 8.2K
R8221 8.2K
C8226 1000P
C8222 820P
R8230 2.2K
R8231 22K
R8232 7.5K
C8231 0.1
C8232 0.1
C8261 0.1
C8262 0.1
R8262 15K
R8264 15K
K8251 0
C8253 0.1
IC8251 C0GBG0000048 MOTOR DRIVER
1 BIAS1
2 VIN1
3 VIN2
4 OPIN+
5 OPIN-
6 OPOUT
7 GND
29 FIN
8 VCC
9 MUTE12
10 GND
11 VO2-
12 VO2+
13 VO1-
14 VO1+
28 LDCNT
27 MUTE3
26 TRIN
25 BIAS2
24 LDIN
23 VIN3
22 PREVCC
30 FIN
21 VCC
20 MUTE4
19 GND
18 VO3-
17 VO3+
16 VO4-
15 VO4+
C8251 6.3V 220P
C8252 0.1
C8255 16V 22P
C8256 16V 0.1
R8251 6.8
R8263 82K
R8261 82K
DRV0
DRV1
DRV4
DRV3
DRV2
M+9V
C8258 0.1
C8257 16V 47P
OSC27M
OSC27M UP
RX8032 D1H447220001
EXTRG0
VOUT7
VOUT6
VOUT5
VOUT4
VOUT3
VOUT2
VOUT1
VOUT0
UP
FP8251
SPM-
SPM+
TRVM-
TRVM+
GND
TRV_INNER_SW
TO SPINDLE/ TRAVERSE MOTOR ASS'Y
C8571 10
C8572 0.1
FP8531
RX8532 D1H85604A024
LB8257 ERJ3GEY0R00V
LB8259 ERJ3GEY0R00V
LB8260 ERJ3GEY0R00V
LB8258 ERJ3GEY0R00V
LB8571 J0JBC0000042
T+
F+
F-
T-
HFM
TA(DVD)
TA(DVD)
TA(DVD)
TA(DVD)
FE2(DVD/CD)
FE1(DVD/CD)
GND
RF
VREF2(F-)
PIN(DVD)
LDCD
LDGND
LDDVD
GND(OEIC)
VREF1
VCC
SUB2
SUB1
PIN(CD)
SUBSEL
GND(VRCD)
TO OPTICAL PICKUP UNIT
QR8571 UNR511V00L BUFFER
D8571 MA2J72800L
VIN1
VIN2
VIN4
VIN3
VIN8
VIN7
RX8534 D1H456020001
C8511 1
C8512 1
RX8531 D1H456020001
LPC1
R8531 1.5K
LB8561 J0JBC0000042
LB8551 J0JBC0000042
VREFH
LB8531 ERJ2GE0R00X
LB8530 J0JHC0000045
RX8533 D1H456020001
VIN6
VIN5
LPC2
DRV5
R8532 2.2K
R8533 0
C8532 220P
C8531 100P
C8530 0.1
C8533 0.1
P14
RFINP
RFINN
H
G
F
E
D
C
B
A
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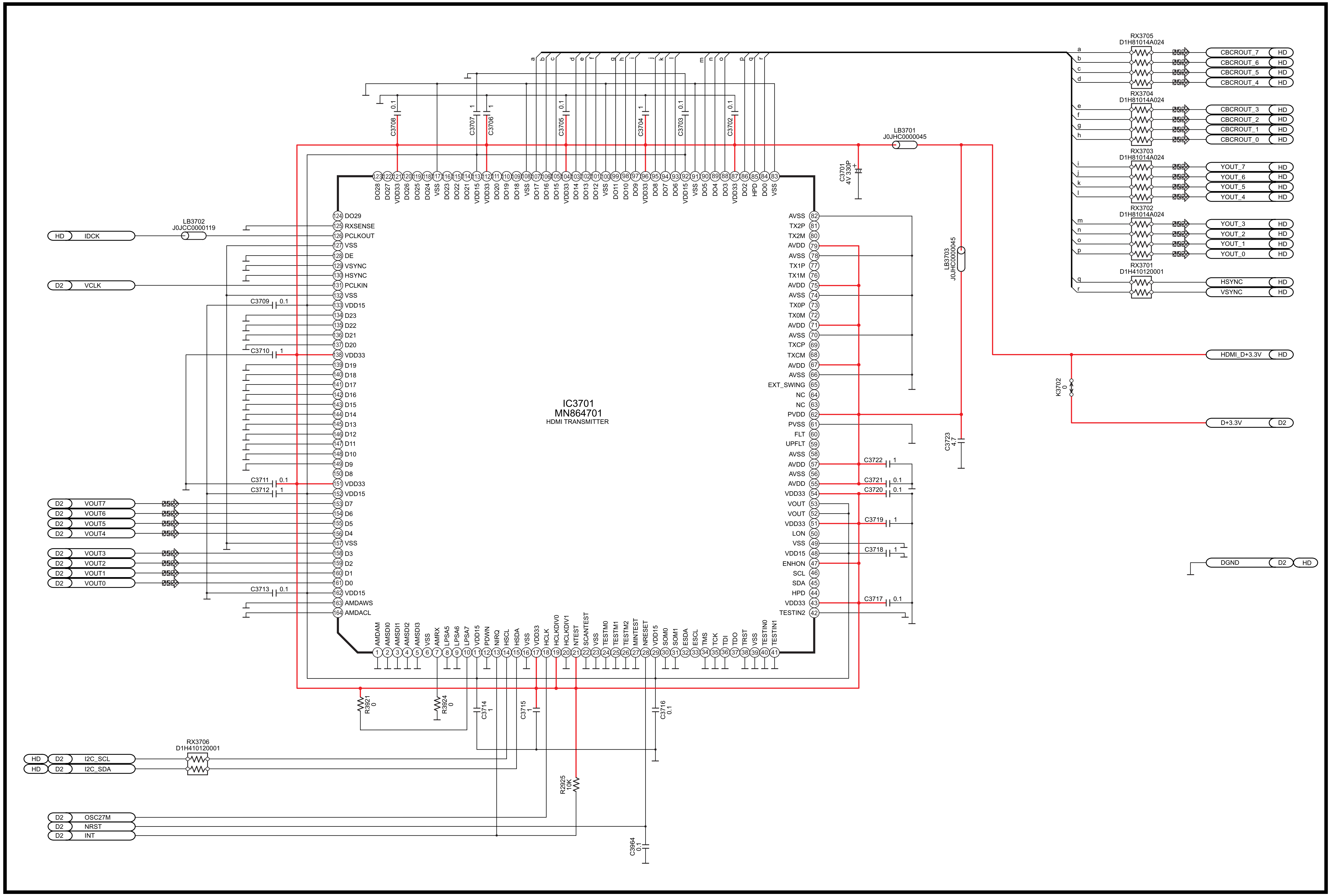
SA-HT940P/PC HDMI MODULE CIRCUIT (D2)

SCHEMATIC DIAGRAM-5

A HDMI MODULE CIRCUIT (UP)

:DVD(VIDEO) SIGNAL LINE :+B SIGNAL LINE

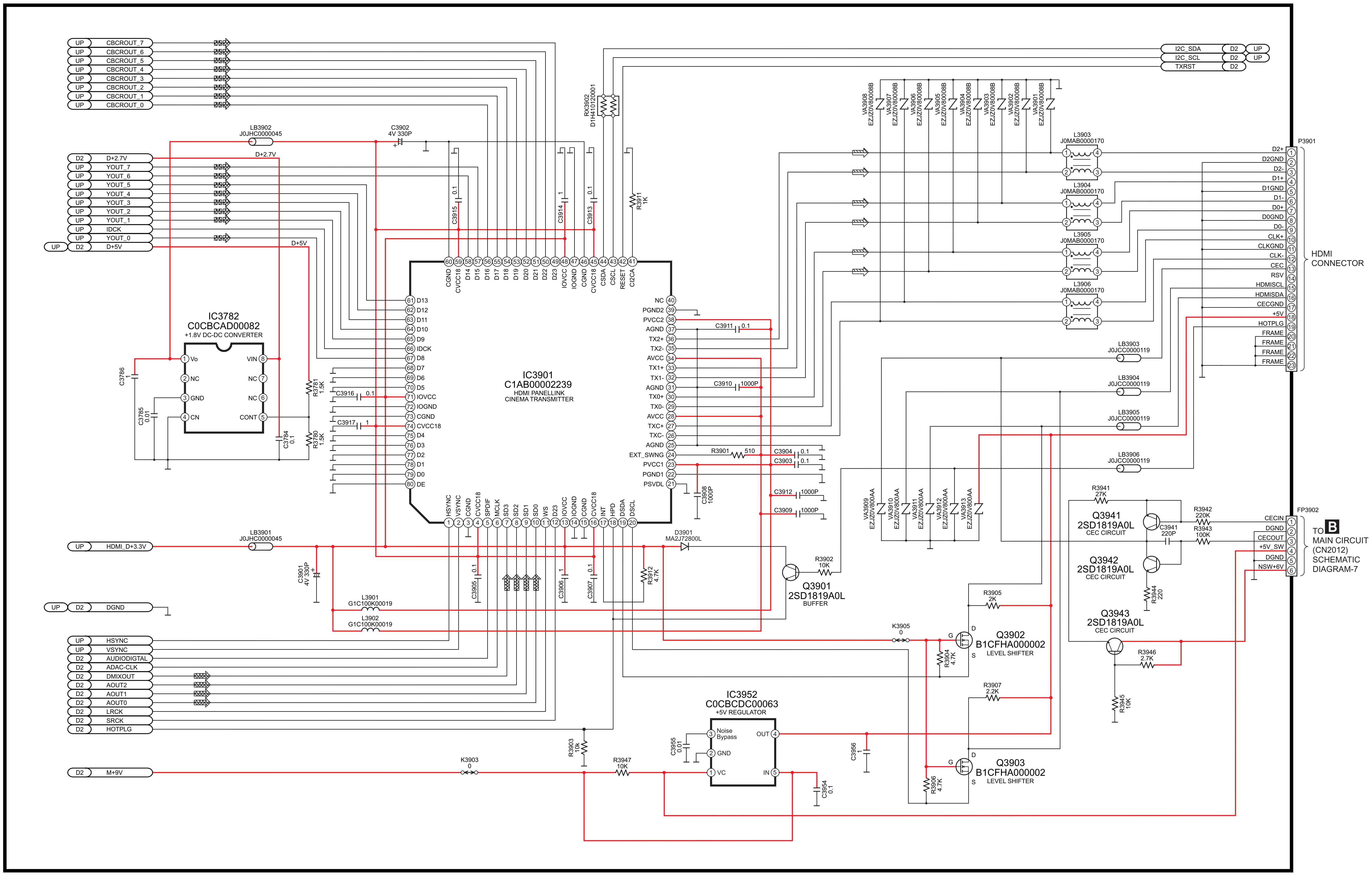

IC3701
MN864701
HDMI TRANSMITTER
LB3701
J0JHC0000045
LB3702
J0JCC0000119
LB3703
J0JHC0000045
C3701
4V 330P
C3702 0.1
C3703 0.1
C3704 1
C3705 0.1
C3706 1
C3707 1
C3708 0.1
C3709 0.1
C3710 1
C3711 0.1
C3712 1
C3713 0.1
C3714 1
C3715 1
C3716 0.1
C3717 0.1
C3718 1
C3719 1
C3720 0.1
C3721 0.1
C3722 1
C3723 4.7
C3964 0.1
R3921 0
R3924 0
R2925 10K
K3702 0
RX3701 D1H410120001
RX3702 D1H81014A024
RX3703 D1H81014A024
RX3704 D1H81014A024
RX3705 D1H81014A024
RX3706 D1H410120001
a b c d e f g h i j k l m n o p q r
HD IDCK
D2 VCLK
D2 VOUT7
D2 VOUT6
D2 VOUT5
D2 VOUT4
D2 VOUT3
D2 VOUT2
D2 VOUT1
D2 VOUT0
HD D2 I2C_SCL
HD D2 I2C_SDA
D2 OSC27M
D2 NRST
D2 INT
CBCROUT_7 HD
CBCROUT_6 HD
CBCROUT_5 HD
CBCROUT_4 HD
CBCROUT_3 HD
CBCROUT_2 HD
CBCROUT_1 HD
CBCROUT_0 HD
YOUT_7 HD
YOUT_6 HD
YOUT_5 HD
YOUT_4 HD
YOUT_3 HD
YOUT_2 HD
YOUT_1 HD
YOUT_0 HD
HSYNC HD
VSYNC HD
HDMI_D+3.3V HD
D+3.3V D2
DGND D2 HD
123 DO28
122 DO27
121 VDD33
120 DO26
119 DO25
118 DO24
117 VSS
116 DO23
115 DO22
114 DO21
113 VDD15
112 VDD33
111 DO20
110 DO19
109 DO18
108 VSS
107 DO17
106 DO16
105 DO15
104 VDD33
103 DO14
102 DO13
101 DO12
100 VSS
99 DO11
98 DO10
97 DO9
96 VDD33
95 DO8
94 DO7
93 DO6
92 VDD15
91 VSS
90 DO5
89 DO4
88 DO3
87 VDD33
86 DO2
85 HPD
84 DO0
83 VSS
124 DO29
125 RXSENSE
126 PCLKOUT
127 VSS
128 DE
129 VSYNC
130 HSYNC
131 PCLKIN
132 VSS
133 VDD15
134 D23
135 D22
136 D21
137 D20
138 VDD33
139 D19
140 D18
141 D17
142 D16
143 D15
144 D14
145 D13
146 D12
147 D11
148 D10
149 D9
150 D8
151 VDD33
152 VDD15
153 D7
154 D6
155 D5
156 D4
157 VSS
158 D3
159 D2
160 D1
161 D0
162 VDD15
163 AMDAWS
164 AMDACL
82 AVSS
81 TX2P
80 TX2M
79 AVDD
78 AVSS
77 TX1P
76 TX1M
75 AVDD
74 AVSS
73 TX0P
72 TX0M
71 AVDD
70 AVSS
69 TXCP
68 TXCM
67 AVDD
66 AVSS
65 EXT_SWING
64 NC
63 NC
62 PVDD
61 PVSS
60 FLT
59 UPFLT
58 AVSS
57 AVDD
56 AVSS
55 AVDD
54 VDD33
53 VOUT
52 VOUT
51 VDD33
50 LON
49 VSS
48 VDD15
47 ENHON
46 SCL
45 SDA
44 HPD
43 VDD33
42 TESTIN2
1 AMDAM
2 AMSDI0
3 AMSDI1
4 AMSDI2
5 AMSDI3
6 VSS
7 AMRX
8 LPSA5
9 LPSA6
10 LPSA7
11 VDD15
12 PDWN
13 NIRQ
14 HSCL
15 HSDA
16 VSS
17 VDD33
18 HCLK
19 HCLKDIV0
20 HCLKDIV1
21 NTEST
22 SCANTEST
23 VSS
24 TESTM0
25 TESTM1
26 TESTM2
27 MINTEST
28 NRESET
29 VDD15
30 SOM0
31 SOM1
32 ESDA
33 ESCL
34 TMS
35 TCK
36 TDI
37 TDO
38 TRST
39 VSS
40 TESTIN0
41 TESTIN1

SA-HT940P/PC HDMI MODULE CIRCUIT (UP)

SCHEMATIC DIAGRAM-6

A HDMI MODULE CIRCUIT (HD)

▨ :DVD(VIDEO) SIGNAL LINE ▨ :DVD(AUDIO) SIGNAL LINE ⇨ :MAIN SIGNAL LINE — :+B SIGNAL LINE



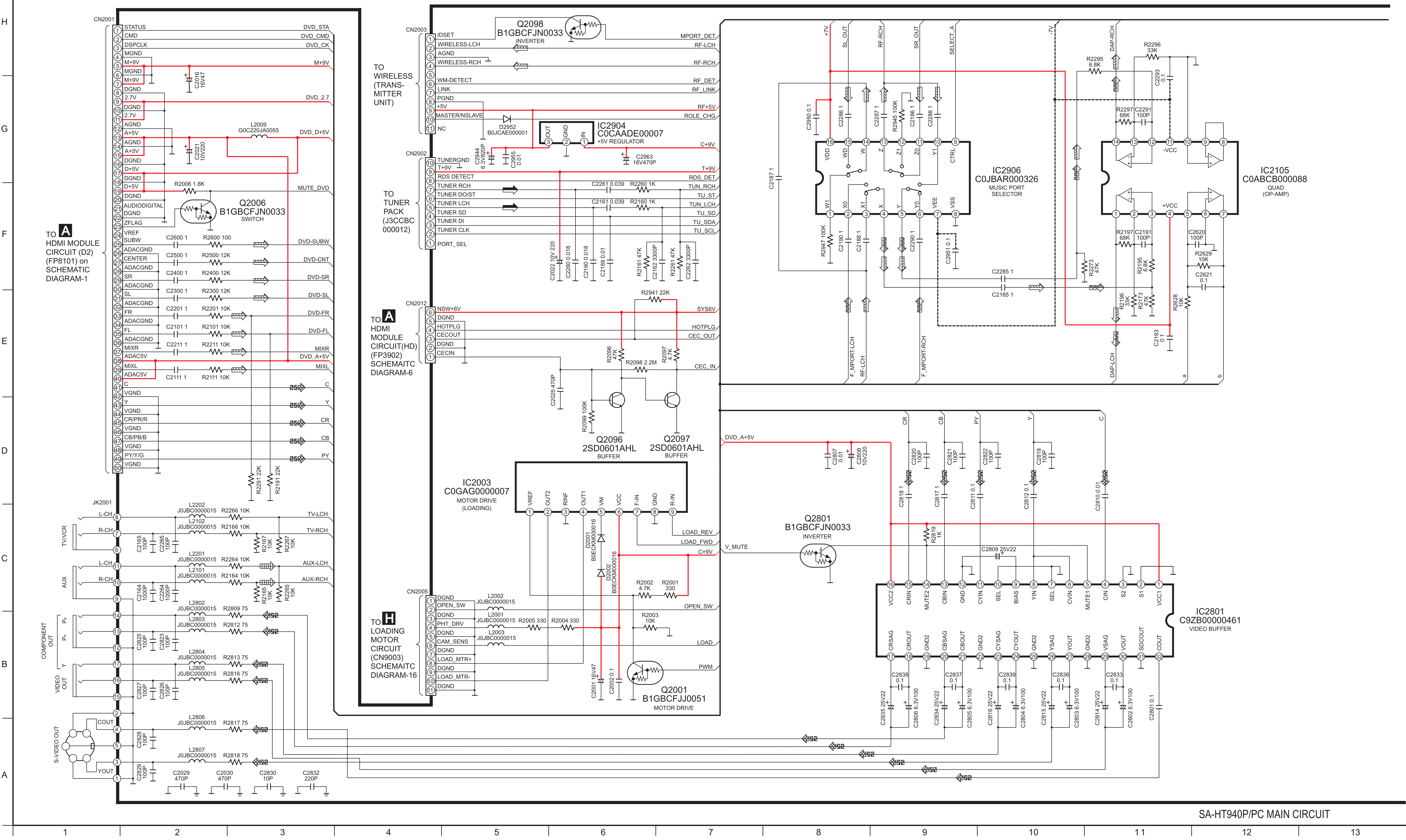
UP CBCROUT_7
UP CBCROUT_6
UP CBCROUT_5
UP CBCROUT_4
UP CBCROUT_3
UP CBCROUT_2
UP CBCROUT_1
UP CBCROUT_0
D2 D+2.7V
UP YOUT_7
UP YOUT_6
UP YOUT_5
UP YOUT_4
UP YOUT_3
UP YOUT_2
UP YOUT_1
UP IDCK
UP YOUT_0
UP D2 D+5V
D+5V
D+2.7V
LB3902 J0JHC0000045
C3902 4V 330P
RX3902 D1H410120001
C3915 0.1
C3914 1
C3913 0.1
R3911 1K
I2C_SDA D2 UP
I2C_SCL D2 UP
TXRST D2
VA3908 EZJZ0V80008B
VA3907 EZJZ0V80008B
VA3906 EZJZ0V80008B
VA3905 EZJZ0V80008B
VA3904 EZJZ0V80008B
VA3903 EZJZ0V80008B
VA3902 EZJZ0V80008B
VA3901 EZJZ0V80008B
L3903 J0MAB0000170
L3904 J0MAB0000170
L3905 J0MAB0000170
L3906 J0MAB0000170
P3901
D2+ D2GND D2- D1+ D1GND D1- D0+ D0GND D0- CLK+ CLKGND CLK- CEC RSV HDMISCL HDMISDA CECGND +5V HOTPLG FRAME FRAME FRAME FRAME
HDMI CONNECTOR
IC3782 C0CBCAD00082 +1.8V DC-DC CONVERTER
Vo NC GND CN VIN NC NC CONT
C3786 1
C3785 0.01
C3784 0.1
R3781 1.5K
R3780 1.5K
C3916 0.1
C3917 1
IC3901 C1AB00002239 HDMI PANELLINK CINEMA TRANSMITTER
CGND CVCC18 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 IOVCC IOGND CGND CVCC18 CSDA CSCL RESET CI2CA
D13 D12 D11 D10 D9 IDCK D8 D7 D6 D5 IOVCC IOGND CGND CVCC18 D4 D3 D2 D1 D0 DE
NC PGND2 PVCC2 AGND TX2+ TX2- AVCC TX1+ TX1- AGND TX0+ TX0- AVCC TXC+ TXC- AGND EXT_SWNG PVCC1 PGND1 PSVDL
HSYNC VSYNC CGND CVCC18 SPDIF MCLK SD3 SD2 SD1 SD0 WS D23 IOVCC IOGND CGND CVCC18 INT HPD DSDA DSCL
C3911 0.1
C3910 1000P
R3901 510
C3904 0.1
C3903 0.1
C3908 1000P
C3912 1000P
C3909 1000P
LB3903 J0JCC0000119
LB3904 J0JCC0000119
LB3905 J0JCC0000119
LB3906 J0JCC0000119
VA3909 EZJZ0V800AA
VA3910 EZJZ0V800AA
VA3911 EZJZ0V800AA
VA3912 EZJZ0V800AA
VA3913 EZJZ0V800AA
R3941 27K
Q3941 2SD1819A0L CEC CIRCUIT
C3941 220P
R3942 220K
R3943 100K
Q3942 2SD1819A0L CEC CIRCUIT
R3944 220
Q3943 2SD1819A0L CEC CIRCUIT
R3946 2.7K
R3945 10K
FP3902
CECIN DGND CECOUT +5V_SW DGND NSW+6V
TO B MAIN CIRCUIT (CN2012) SCHEMATIC DIAGRAM-7
UP D2 HDMI_D+3.3V
LB3901 J0JHC0000045
C3901 4V 330P
D3901 MA2J72800L
R3912 4.7K
R3902 10K
Q3901 2SD1819A0L BUFFER
C3905 0.1
C3906 1
C3907 0.1
L3901 G1C100K00019
L3902 G1C100K00019
UP D2 DGND
UP HSYNC
UP VSYNC
D2 AUDIODIGTAL
D2 ADAC-CLK
D2 DMIXOUT
D2 AOUT2
D2 AOUT1
D2 AOUT0
D2 LRCK
D2 SRCK
D2 HOTPLG
R3905 2K
K3905 0
Q3902 B1CFHA000002 LEVEL SHIFTER
R3904 4.7K
R3907 2.2K
IC3952 C0CBCDC00063 +5V REGULATOR
Noise Bypass OUT GND VC IN
C3955 0.01
C3956 1
C3954 0.1
R3903 10k
R3947 10K
K3903 0
D2 M+9V
Q3903 B1CFHA000002 LEVEL SHIFTER
R3906 4.7K
G D S
H G F E D C B A
1 2 3 4 5 6 7 8 9 10 11 12 13

SA-HT940P/PC HDMI MODULE CIRCUIT

SCHEMATIC DIAGRAM-7

B MAIN CIRCUIT

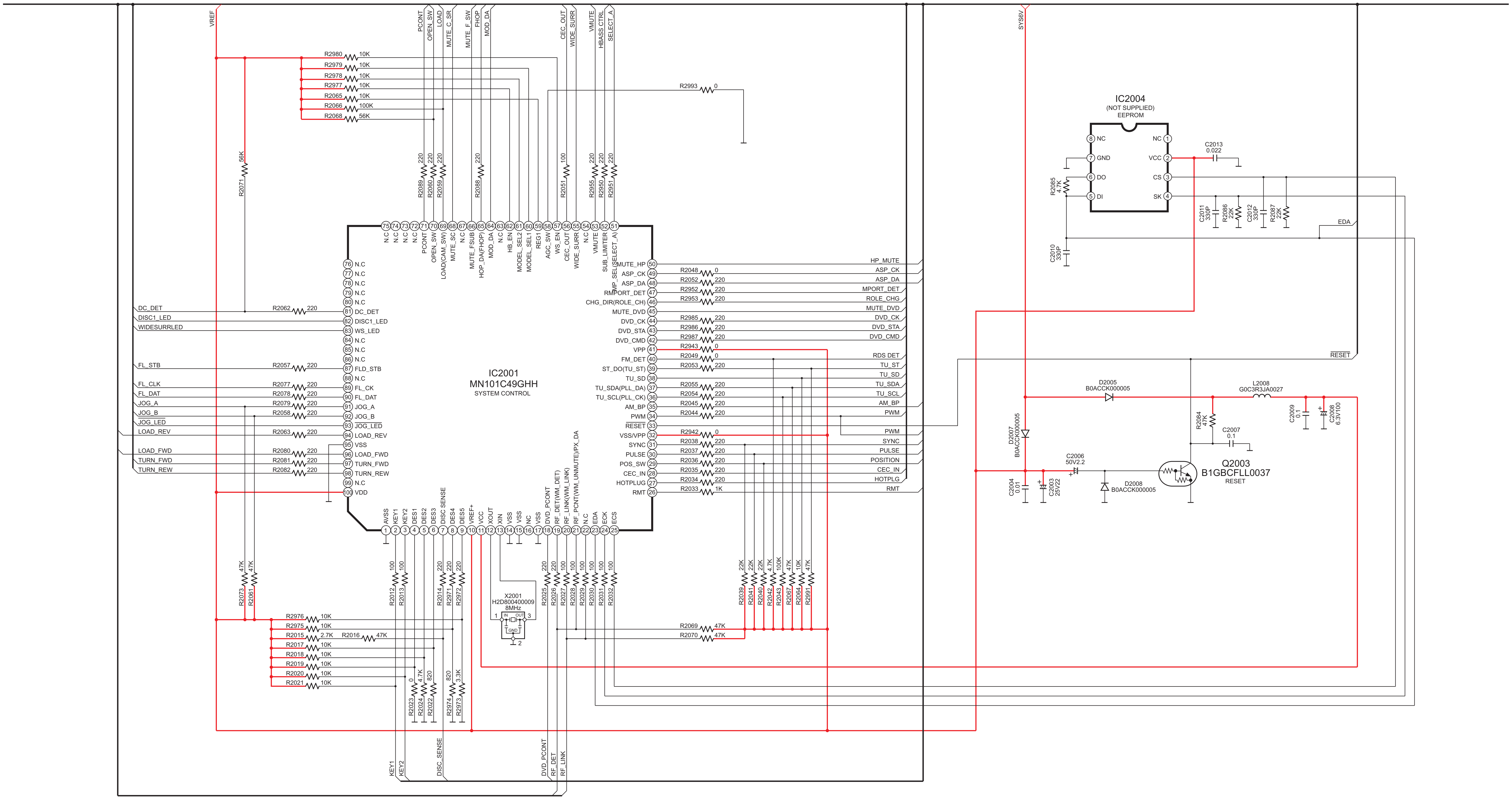
:MAIN SIGNAL LINE :MUSIC PORT SIGNAL LINE :FM/AM SIGNAL LINE :DVD(VIDEO) SIGNAL LINE :AUX SIGNAL LINE :+B SIGNAL LINE :-B SIGNAL LINE


CN2001
STATUS
CMD
DSPCLK
MGND
M+9V
DGND
2.7V
AGND
A+5V
D+5V
AUDIODIGITAL
ZFLAG
VREF
SUBW
ADACGND
CENTER
SR
SL
FR
FL
MIXR
ADAC5V
MIXL
C
VGND
Y
CR/PR/R
CB/PB/B
PY/Y/G
DVD_STA
DVD_CMD
DVD_CK
M+9V
DVD_2.7
DVD_D+5V
MUTE_DVD
DVD-SUBW
DVD-CNT
DVD-SR
DVD-SL
DVD-FR
DVD-FL
MIXR
DVD_A+5V
MIXL
CR
CB
PY
L2009 G0C220JA0055
C2016 16V47
C2021 10V220
R2006 1.8K
Q2006 B1GBCFJN0033 SWITCH
TO A HDMI MODULE CIRCUIT (D2) (FP8101) on SCHEMATIC DIAGRAM-1
R2291 22K
R2191 22K
JK2001
TV/VCR
AUX
COMPONENT OUT
VIDEO OUT
S-VIDEO OUT
L-CH
R-CH
COUT
YOUT
L2202 J0JBC0000015
L2102 J0JBC0000015
L2201 J0JBC0000015
L2101 J0JBC0000015
L2802 J0JBC0000015
L2803 J0JBC0000015
L2804 J0JBC0000015
L2805 J0JBC0000015
L2806 J0JBC0000015
L2807 J0JBC0000015
R2266 10K
R2166 10K
R2264 10K
R2164 10K
R2809 75
R2812 75
R2813 75
R2816 75
R2817 75
R2818 75
TV-LCH
TV-RCH
AUX-LCH
AUX-RCH
C2029 470P
C2030 470P
C2830 10P
C2832 220P
CN2003
TO WIRELESS (TRANS-MITTER UNIT)
IDSET
WIRELESS-LCH
AGND
WIRELESS-RCH
WM-DETECT
LINK
PGND
+5V
MASTER/NSLAVE
NC
Q2098 B1GBCFJN0033 INVERTER
MPORT_DET
RF-LCH
RF-RCH
RF_DET
RF_LINK
RF+5V
ROLE_CHG
D2952 B0JCAE000001
IC2904 C0CAADE00007 +5V REGULATOR
C+9V
C2963 16V470P
C2944 6.3V820P
C2955 0.01
CN2002
TO TUNER PACK (J3CCBC 000012)
TUNERGND
T+9V
RDS DETECT
TUNER RCH
TUNER DO/ST
TUNER LCH
TUNER SD
TUNER DI
TUNER CLK
PORT_SEL
RDS_DET
TUN_RCH
TU_ST
TUN_LCH
TU_SD
TU_SDA
TU_SCL
C2261 0.039
R2260 1K
C2161 0.039
R2160 1K
CN2012
TO A HDMI MODULE CIRCUIT(HD) (FP3902) SCHEMAITC DIAGRAM-6
NSW+6V
HOTPLG
CECOUT
CECIN
SYS6V
CEC_OUT
CEC_IN
R2941 22K
R2098 2.2M
Q2096 2SD0601AHL BUFFER
Q2097 2SD0601AHL BUFFER
IC2003 C0GAG0000007 MOTOR DRIVE (LOADING)
VREF
OUT2
RINF
OUT1
VM
VCC
F-IN
GND
R-IN
LOAD_REV
LOAD_FWD
OPEN_SW
LOAD
PWM
CN2005
TO H LOADING MOTOR CIRCUIT (CN9003) SCHEMAITC DIAGRAM-16
OPEN_SW
PHT_DRV
CAM_SENS
LOAD_MTR+
LOAD_MTR-
L2002 J0JBC0000015
L2001 J0JBC0000015
L2003 J0JBC0000015
R2005 330
R2004 330
R2003 10K
R2002 4.7K
R2001 330
D2001 B0ECKM000016
D2002 B0ECKM000016
Q2001 B1GBCFJJ0051 MOTOR DRIVE
IC2906 C0JBAR000326 MUSIC PORT SELECTOR
IC2105 C0ABCB000088 QUAD (OP-AMP)
+7V
-7V
SL_OUT
RF-RCH
SR_OUT
SELECT_A
DAP-RCH
DAP-LCH
F_MPORT-LCH
RF-LCH
F_MPORT-RCH
R2296 33K
R2295 6.8K
R2297 68K
R2197 68K
R2629 10K
R2628 10K
DVD_A+5V
V_MUTE
Q2801 B1GBCFJN0033 INVERTER
IC2801 C9ZB00000461 VIDEO BUFFER
R2819 1K
C2809 25V22
VCC2
CRIN
MUTE2
CBIN
GND
CYIN
SEL
BIAS
YIN
CVIN
MUTE1
CIN
S2
S1
VCC1
CRSAG
CROUT
GND2
CBSAG
CBOUT
CYSAG
CYOUT
YSAG
YOUT
VSAG
VOUT
SDCOUT
COUT

SA-HT940P/PC MAIN CIRCUIT

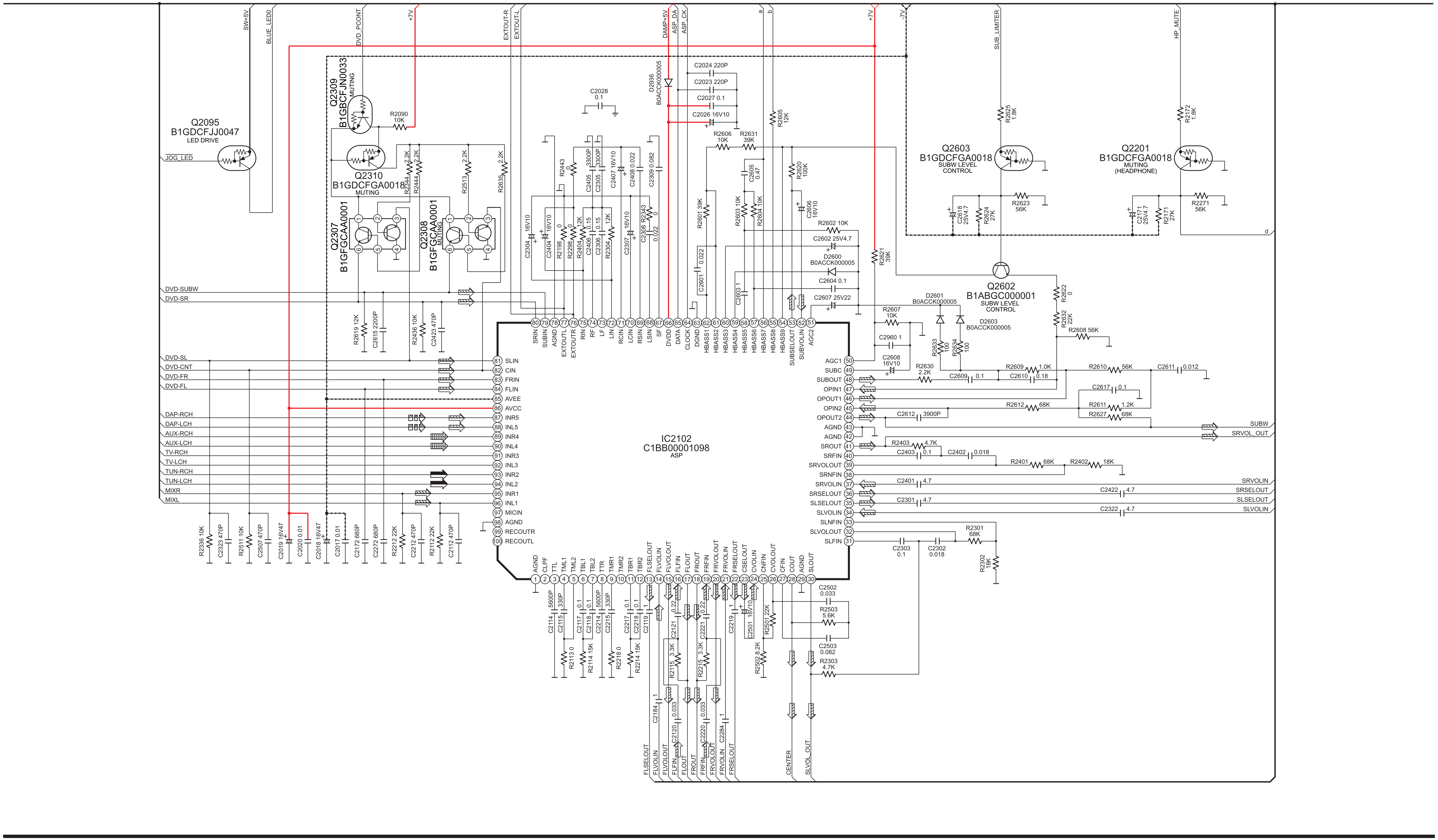
B MAIN CIRCUIT

:+B SIGNAL LINE


VREF
SYS6V
IC2001
MN101C49GHH
SYSTEM CONTROL
IC2004
(NOT SUPPLIED)
EEPROM
NC
GND
DO
DI
VCC
CS
SK
C2013
0.022
R2085
4.7K
C2010
330P
C2011
330P
R2086
22K
C2012
330P
R2087
22K
EDA
RESET
D2005
B0ACCK000005
L2008
G0C3R3JA0027
C2009
0.1
C2008
6.3V100
R2084
47K
C2007
0.1
D2007
B0ACCK000005
C2006
50V2.2
Q2003
B1GBCFLL0037
RESET
C2004
0.01
C2003
25V22
D2008
B0ACCK000005
X2001
H2D800400009
8MHz
IN
OUT
GND
PCONT
OPEN_SW
LOAD
MUTE_C_SR
MUTE_F_SW
FHOP
MOD_DA
CEC_OUT
WIDE_SURR
VMUTE
HBASS CTRL
SELECT_A
R2980 10K
R2979 10K
R2978 10K
R2977 10K
R2065 10K
R2066 100K
R2068 56K
R2993 0
R2071 56K
R2089 220
R2060 220
R2059 220
R2088 220
R2051 100
R2955 220
R2950 220
R2951 220
DC_DET
DISC1_LED
WIDESURRLED
FL_STB
FL_CLK
FL_DAT
JOG_A
JOG_B
JOG_LED
LOAD_REV
LOAD_FWD
TURN_FWD
TURN_REW
R2062 220
R2057 220
R2077 220
R2078 220
R2079 220
R2058 220
R2063 220
R2080 220
R2081 220
R2082 220
N.C
DC_DET
DISC1_LED
WS_LED
FLD_STB
FL_CK
FL_DAT
JOG_A
JOG_B
JOG_LED
LOAD_REV
VSS
LOAD_FWD
TURN_FWD
TURN_REW
VDD
MODEL_SEL2
MODEL_SEL1
REG1
AGC_SW
WS_EN
CEC_OUT
WIDE_SURR
HB_EN
MUTE_FSUB
HOP_DA(FHOP)
MOD_DA
MUTE_SC
LOAD(CAM_SW)
OPEN_SW
PCONT
SUB_LIMITER
HP_SEL(SELECT_A)
MUTE_HP
ASP_CK
ASP_DA
RMPORT_DET
CHG_DIR(ROLE_CH)
MUTE_DVD
DVD_CK
DVD_STA
DVD_CMD
VPP
FM_DET
ST_DO(TU_ST)
TU_SD
TU_SDA(PLL_DA)
TU_SCL(PLL_CK)
AM_BP
PWM
RESET
VSS/VPP
SYNC
PULSE
POS_SW
CEC_IN
HOTPLUG
RMT
R2048 0
R2052 220
R2952 220
R2953 220
R2985 220
R2986 220
R2987 220
R2943 0
R2049 0
R2053 220
R2055 220
R2054 220
R2045 220
R2044 220
R2942 0
R2038 220
R2037 220
R2036 220
R2035 220
R2034 220
R2033 1K
HP_MUTE
ASP_CK
ASP_DA
MPORT_DET
ROLE_CHG
MUTE_DVD
DVD_CK
DVD_STA
DVD_CMD
RDS DET
TU_ST
TU_SD
TU_SDA
TU_SCL
AM_BP
PWM
PWM
SYNC
PULSE
POSITION
CEC_IN
HOTPLG
RMT
AVSS
KEY1
KEY2
DES1
DES2
DES3
DISC SENSE
DES4
DES5
VREF+
VCC
XOUT
XIN
VSS
VSS
NC
VSS
DVD_PCONT
RF_DET(WM_DET)
RF_LINK(WM_LINK)
RF_PCNT(WM_UNMUTE)/PX_DA
N.C
EDA
ECK
ECS
R2073 47K
R2061 47K
R2012 100
R2013 100
R2014 220
R2971 220
R2972 220
R2025 220
R2026 220
R2027 100
R2028 100
R2029 100
R2030 100
R2031 100
R2032 100
R2039 22K
R2041 22K
R2040 22K
R2042 4.7K
R2043 100K
R2067 47K
R2064 10K
R2991 47K
R2069 47K
R2070 47K
R2976 10K
R2975 10K
R2015 2.7K
R2016 47K
R2017 10K
R2018 10K
R2019 10K
R2020 10K
R2021 10K
R2023 0
R2024 4.7K
R2022 820
R2974 820
R2973 3.3K
KEY1
KEY2
DISC_SENSE
DVD_PCONT
RF_DET
RF_LINK

B MAIN CIRCUIT

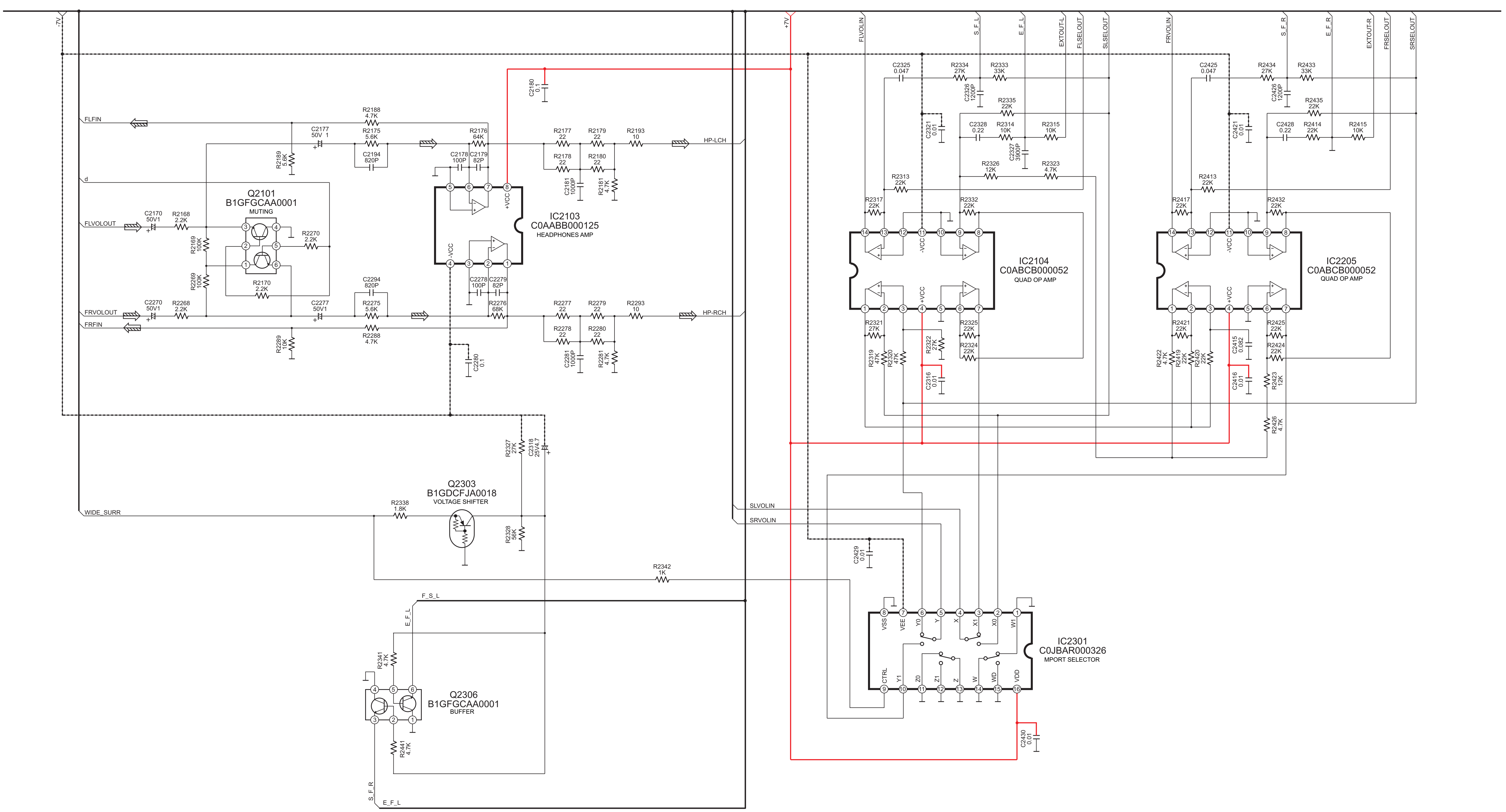
: AUX SIGNAL LINE
: MUSIC PORT SIGNAL LINE
: MAIN SIGNAL LINE
:+B SIGNAL LINE
:-B SIGNAL LINE


SW+5V
BLUE_LED0
DVD_PCONT
+7V
EXTOUT-R
EXTOUT-L
DAMP+5V
ASP_DA
ASP_CK
a
b
-7V
SUB_LIMITER
HP_MUTE
Q2095
B1GDCFJJ0047
LED DRIVE
JOG_LED
Q2309
B1GBCFJN0033
MUTING
R2090
10K
Q2310
B1GDCFGA0018
MUTING
Q2307
B1GFGCAA0001
Q2308
B1GFGCAA0001
MUTING
D2936
B0ACCK000005
C2024 220P
C2023 220P
C2027 0.1
C2026 16V10
C2028
0.1
R2606
10K
R2631
39K
R2605
12K
R2620
100K
C2605
0.47
C2606
16V10
R2602 10K
C2602 25V4.7
D2600
B0ACCK000005
C2604 0.1
C2607 25V22
R2621
39K
Q2603
B1GDCFGA0018
SUBW LEVEL
CONTROL
R2625
1.8K
C2618
25V4.7
R2624
27K
R2623
56K
Q2201
B1GDCFGA0018
MUTING
(HEADPHONE)
R2172
1.8K
C2171
25V4.7
R2171
27K
R2271
56K
d
Q2602
B1ABGC000001
SUBW LEVEL
CONTROL
D2601
B0ACCK000005
D2603
B0ACCK000005
R2607
10K
R2622
0
R2632
22K
R2608 56K
C2960 1
C2608
16V10
R2633
100
R2634
100
R2630
2.2K
R2609
1.0K
C2609 0.1
C2610 0.18
R2610 56K
C2611 0.012
C2617 0.1
R2612 68K
R2611 1.2K
R2627 68K
C2612 3900P
SUBW
SRVOL_OUT
R2403 4.7K
C2403 0.1
C2402 0.018
R2401 68K
R2402 18K
C2401 4.7
C2422 4.7
C2301 4.7
C2322 4.7
SRVOLIN
SRSELOUT
SLSELOUT
SLVOLIN
R2301
68K
C2303
0.1
C2302
0.018
R2302
18K
IC2102
C1BB00001098
ASP
DVD-SUBW
DVD-SR
DVD-SL
DVD-CNT
DVD-FR
DVD-FL
DAP-RCH
DAP-LCH
AUX-RCH
AUX-LCH
TV-RCH
TV-LCH
TUN-RCH
TUN-LCH
MIXR
MIXL
SLIN
CIN
FRIN
FLIN
AVEE
AVCC
INR5
INL5
INR4
INL4
INR3
INL3
INR2
INL2
INR1
INL1
MICIN
AGND
RECOUTR
RECOUTL
SRIN
SUBIN
AGND
EXTOUTL
EXTOUTR
RIN
RF
LF
LIN
RCIN
LCIN
RSIN
LSIN
SF
DVDD
DATA
CLOCK
DGND
HBASS1
HBASS2
HBASS3
HBASS4
HBASS5
HBASS6
HBASS7
HBASS8
HBASS9
SUBSELOUT
SUBVOLIN
AGC2
AGC1
SUBC
SUBOUT
OPIN1
OPOUT1
OPIN2
OPOUT2
AGND
AGND
SROUT
SRFIN
SRVOLOUT
SRNFIN
SRVOLIN
SRSELOUT
SLSELOUT
SLVOLIN
SLNFIN
SLVOLOUT
SLFIN
AGND
CLPF
TTL
TML1
TML2
TBL1
TBL2
TTR
TMR1
TMR2
TBR1
TBR2
FLSELOUT
FLVOLIN
FLVOLOUT
FLFIN
FLOUT
FROUT
FRFIN
FRVOLOUT
FRVOLIN
FRSELOUT
CSELOUT
CVOLIN
CNFIN
CVOLOUT
CFIN
COUT
AGND
SLOUT
R2619 12K
C2615 2200P
R2436 10K
C2423 470P
R2336 10K
C2323 470P
R2511 10K
C2507 470P
C2019 16V47
C2020 0.01
C2018 16V47
C2017 0.01
C2172 680P
C2272 680P
R2212 22K
C2212 470P
R2112 22K
C2112 470P
R2344 2.2K
R2444 2.2K
R2513 2.2K
R2635 2.2K
C2304 16V10
C2404 16V10
R2198 0
R2298 0
R2404 12K
C2406 0.15
C2306 0.15
R2304 12K
C2307 16V10
C2308 0.022
R2343 0
R2443 0
C2405 3300P
C2305 3300P
C2407 16V10
C2408 0.022
C2309 0.082
R2601 39K
C2601 0.022
R2603 10K
R2604 10K
C2603 1
C2114 5600P
C2115 330P
C2117 0.1
C2118 0.1
C2214 5600P
C2215 330P
C2217 0.1
C2218 0.1
C2119 1
R2113 0
R2114 15K
R2218 0
R2214 15K
C2121 0.22
C2221 0.22
R2115 3.3K
R2215 3.3K
C2184 1
C2120 0.033
C2220 0.033
C2284 1
C2219 1
C2501 16V10
R2501 22K
R2502 8.2K
C2502
0.033
R2503
5.6K
C2503
0.082
R2303
4.7K
FLSELOUT
FLVOLIN
FLVOLOUT
FLFIN
FLOUT
FROUT
FRFIN
FRVOLOUT
FRVOLIN
FRSELOUT
CENTER
SLVOL_OUT

SCHEMATIC DIAGRAM-10

B MAIN CIRCUIT

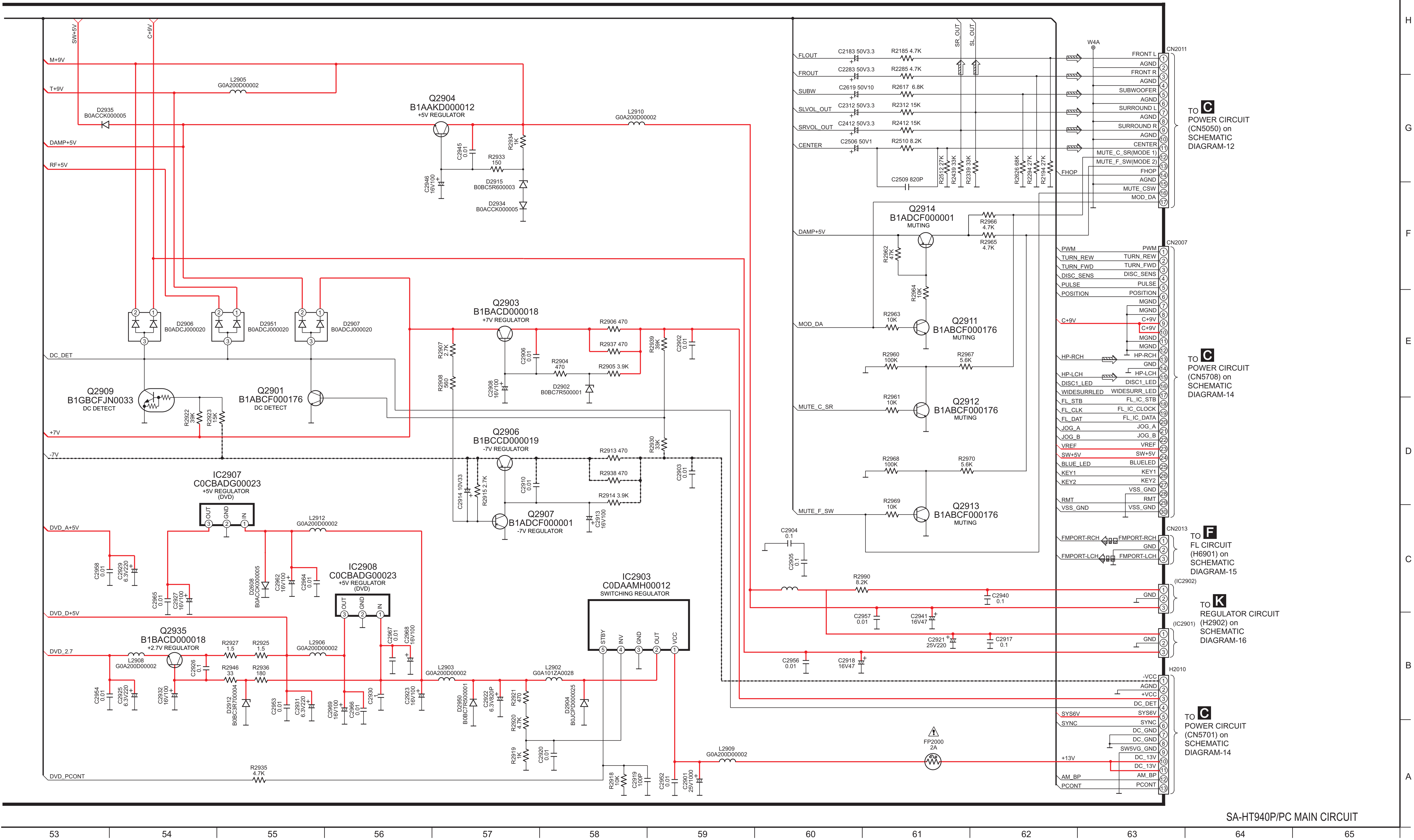
⇨ :MAIN SIGNAL LINE — :+B SIGNAL LINE ---- :-B SIGNAL LINE


-7V
+7V
FLFIN
FLVOLOUT
FRVOLOUT
FRFIN
d
WIDE_SURR
HP-LCH
HP-RCH
SLVOLIN
SRVOLIN
FLVOLIN
S_F_L
E_F_L
EXTOUT-L
FLSELOUT
SLSELOUT
FRVOLIN
S_F_R
E_F_R
EXTOUT-R
FRSELOUT
SRSELOUT
F_S_L
Q2101
B1GFGCAA0001
MUTING
IC2103
C0AABB000125
HEADPHONES AMP
+VCC
-VCC
IC2104
C0ABCB000052
QUAD OP AMP
IC2205
C0ABCB000052
QUAD OP AMP
Q2303
B1GDCFJA0018
VOLTAGE SHIFTER
Q2306
B1GFGCAA0001
BUFFER
IC2301
C0JBAR000326
MPORT SELECTOR
VSS
VEE
Y0
Y
X
X1
X0
W1
CTRL
Y1
Z0
Z1
Z
W
W0
VDD
R2188 4.7K
C2177 50V 1
R2175 5.6K
C2194 820P
R2189 5.6K
R2176 64K
C2178 100P
C2179 82P
C2180 0.1
R2177 22
R2179 22
R2193 10
R2178 22
R2180 22
C2181 1000P
R2181 4.7K
C2170 50V1
R2168 2.2K
R2169 100K
R2270 2.2K
R2269 100K
R2170 2.2K
C2270 50V1
R2268 2.2K
C2277 50V1
C2294 820P
R2275 5.6K
R2288 4.7K
R2289 10K
C2278 100P
C2279 82P
R2276 68K
C2280 0.1
R2277 22
R2279 22
R2293 10
R2278 22
R2280 22
C2281 1000P
R2281 4.7K
R2327 27K
C2318 25V4.7
R2338 1.8K
R2328 56K
R2342 1K
R2341 4.7K
R2441 4.7K
C2325 0.047
R2334 27K
R2333 33K
C2326 1200P
R2335 22K
C2321 0.01
C2328 0.22
R2314 10K
R2315 10K
C2327 3900P
R2326 12K
R2323 4.7K
R2313 22K
R2317 22K
R2332 22K
R2321 27K
R2325 22K
R2322 27K
R2324 22K
R2319 47K
R2320 47K
C2316 0.01
C2425 0.047
R2434 27K
R2433 33K
C2426 1200P
R2435 22K
C2421 0.01
C2428 0.22
R2414 22K
R2415 10K
R2413 22K
R2417 22K
R2432 22K
R2421 22K
R2425 22K
R2424 22K
R2422 4.7K
R2419 22K
R2420 22K
C2415 0.082
C2416 0.01
R2423 12K
R2426 4.7K
C2429 0.01
C2430 0.01

SCHEMATIC DIAGRAM-11

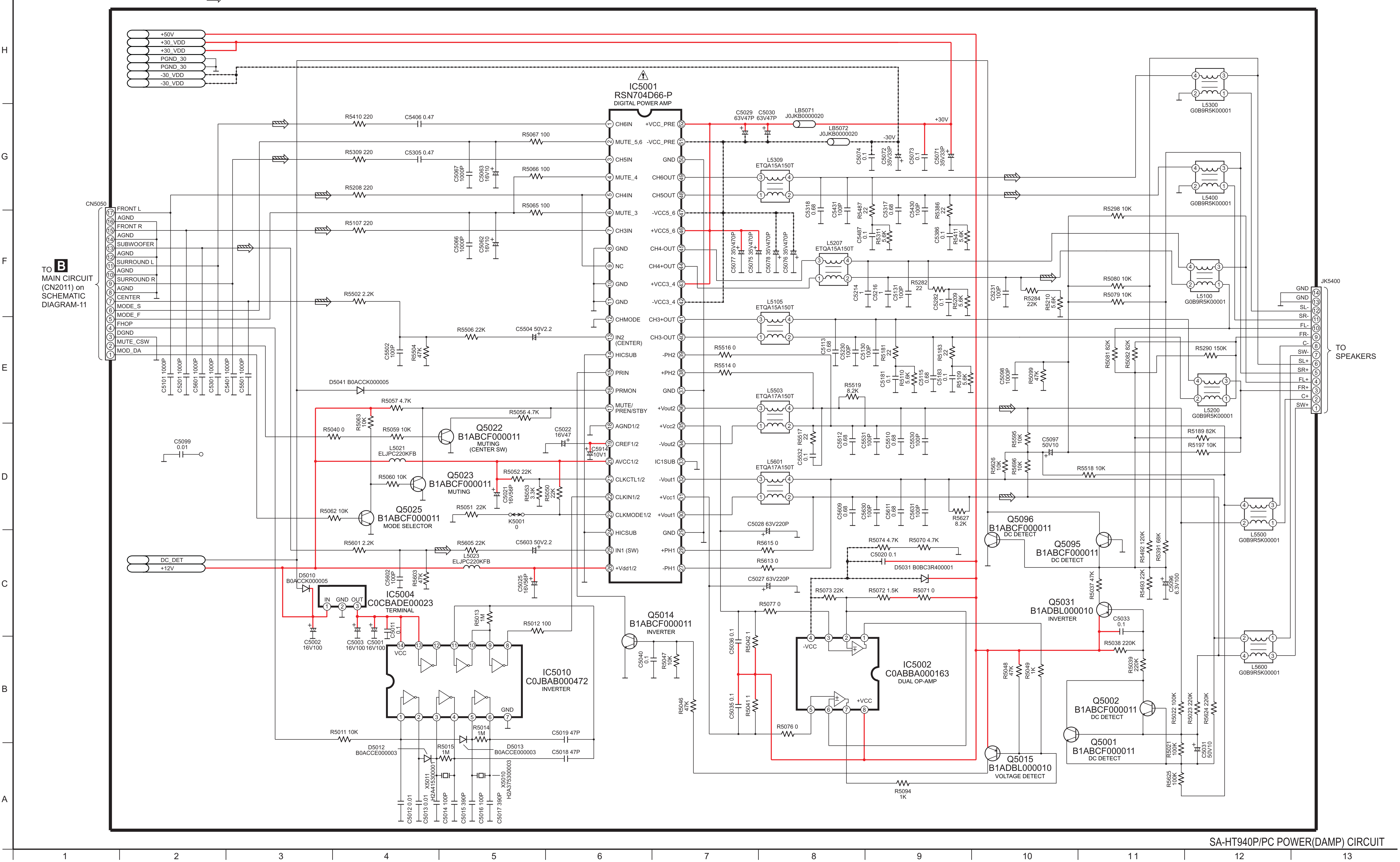
B MAIN CIRCUIT

⇨ :MAIN SIGNAL LINE ⇨ : MUSIC PORT SIGNAL LINE ━ :+B SIGNAL LINE ┅ :-B SIGNAL LINE


SW+5V
C+9V
M+9V
T+9V
L2905
G0A200D00002
D2935
B0ACCK000005
DAMP+5V
RF+5V
Q2904
B1AAKD000012
+5V REGULATOR
C2945
0.01
R2934
1K
R2933
150
C2946
16V100
D2915
B0BC5R600003
D2934
B0ACCK000005
L2910
G0A200D00002
D2906
B0ADCJ000020
D2951
B0ADCJ000020
D2907
B0ADCJ000020
DC_DET
Q2909
B1GBCFJN0033
DC DETECT
Q2901
B1ABCF000176
DC DETECT
R2922
39K
R2923
15K
+7V
-7V
Q2903
B1BACD000018
+7V REGULATOR
R2906 470
R2937 470
R2904
470
R2905 3.9K
R2907
2.7K
R2908
560
C2906
0.01
C2908
16V100
D2902
B0BC7R500001
R2939
39K
C2902
0.01
Q2906
B1BCCD000019
-7V REGULATOR
R2913 470
R2938 470
R2914 3.9K
R2930
33K
C2903
0.01
C2914 10V33
R2915 2.7K
C2910
0.01
Q2907
B1ADCF000001
-7V REGULATOR
C2913
16V100
IC2907
C0CBADG00023
+5V REGULATOR
(DVD)
OUT
GND
IN
L2912
G0A200D00002
DVD_A+5V
C2958
0.01
C2929
6.3V220
C2965
0.01
C2927
16V100
D2608
B0ACCK000005
C2962
16V100
C2964
0.01
IC2908
C0CBADG00023
+5V REGULATOR
(DVD)
DVD_D+5V
DVD_2.7
Q2935
B1BACD000018
+2.7V REGULATOR
L2908
G0A200D00002
R2927
1.5
R2925
1.5
R2946
33
R2936
180
L2906
G0A200D00002
C2967
0.01
C2968
16V100
C2954
0.01
C2925
6.3V220
C2932
16V100
C2926
0.1
D2912
B0BC3R700004
C2953
0.01
C2931
6.3V220
C2969
16V100
C2966
0.01
C2930
1
C2923
16V100
L2903
G0A200D00002
D2950
B0BC7R500001
C2922
6.3V820P
R2921
470
L2902
G0A101ZA0028
D2904
B0JCPD000025
R2920
4.7K
R2919
1K
C2920
0.01
IC2903
C0DAAMH00012
SWITCHING REGULATOR
STBY
INV
GND
OUT
VCC
DVD_PCONT
R2935
4.7K
R2918
10K
C2919
100P
C2952
0.01
C2901
25V1000
L2909
G0A200D00002
FP2000
2A
+13V
SR_OUT
SL_OUT
FLOUT
FROUT
SUBW
SLVOL_OUT
SRVOL_OUT
CENTER
C2183 50V3.3
C2283 50V3.3
C2619 50V10
C2312 50V3.3
C2412 50V3.3
C2506 50V1
R2185 4.7K
R2285 4.7K
R2617 6.8K
R2312 15K
R2412 15K
R2510 8.2K
C2509 820P
R2512 27K
R2439 33K
R2339 33K
R2626 68K
R2294 27K
R2194 27K
FHOP
W4A
CN2011
FRONT L
AGND
FRONT R
AGND
SUBWOOFER
AGND
SURROUND L
AGND
SURROUND R
AGND
CENTER
MUTE_C_SR(MODE 1)
MUTE_F_SW(MODE 2)
FHOP
AGND
MUTE_CSW
MOD_DA
TO C POWER CIRCUIT (CN5050) on SCHEMATIC DIAGRAM-12
Q2914
B1ADCF000001
MUTING
R2966
4.7K
R2965
4.7K
DAMP+5V
R2962
47K
R2964
10K
MOD_DA
R2963
10K
Q2911
B1ABCF000176
MUTING
R2960
100K
R2967
5.6K
MUTE_C_SR
R2961
10K
Q2912
B1ABCF000176
MUTING
R2968
100K
R2970
5.6K
MUTE_F_SW
R2969
10K
Q2913
B1ABCF000176
MUTING
CN2007
PWM
TURN_REW
TURN_FWD
DISC_SENS
PULSE
POSITION
MGND
C+9V
HP-RCH
HP-LCH
GND
DISC1_LED
WIDESURRLED
WIDESURR_LED
FL_STB
FL_IC_STB
FL_CLK
FL_IC_CLOCK
FL_DAT
FL_IC_DATA
JOG_A
JOG_B
VREF
SW+5V
BLUE_LED
BLUELED
KEY1
KEY2
VSS_GND
RMT
TO C POWER CIRCUIT (CN5708) on SCHEMATIC DIAGRAM-14
C2904
0.1
C2905
0.1
CN2013
FMPORT-RCH
GND
FMPORT-LCH
TO F FL CIRCUIT (H6901) on SCHEMATIC DIAGRAM-15
(IC2902)
R2990
8.2K
C2940
0.1
C2957
0.01
C2941
16V47
GND
TO K REGULATOR CIRCUIT (H2902) on SCHEMATIC DIAGRAM-16
(IC2901)
C2921
25V220
C2917
0.1
C2956
0.01
C2918
16V47
H2010
-VCC
AGND
+VCC
DC_DET
SYS6V
SYNC
DC_GND
SW5VG_GND
DC_13V
AM_BP
PCONT
TO C POWER CIRCUIT (CN5701) on SCHEMATIC DIAGRAM-14
H
G
F
E
D
C
B
A
53
54
55
56
57
58
59
60
61
62
63
64
65

C POWER(DAMP) CIRCUIT

: MAIN SIGNAL LINE :+B SIGNAL LINE :-B SIGNAL LINE

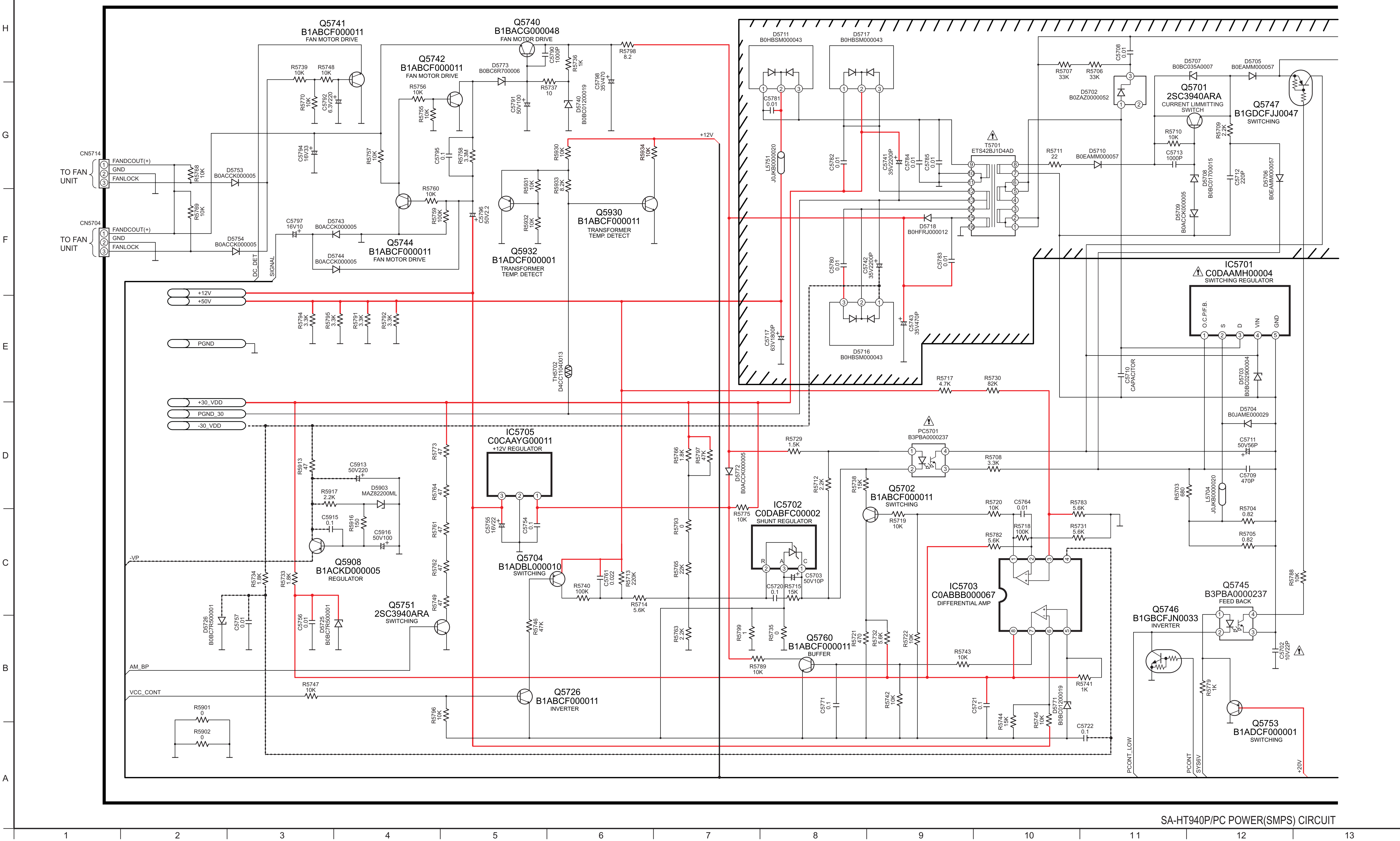

H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13
+50V
+30_VDD
+30_VDD
PGND_30
PGND_30
-30_VDD
-30_VDD
IC5001
RSN704D66-P
DIGITAL POWER AMP
CH6IN
MUTE_5,6
CH5IN
MUTE_4
CH4IN
MUTE_3
CH3IN
GND
NC
GND
GND
CHMODE
IN2 (CENTER)
HICSUB
PRIN
PRMON
MUTE/ PREN/STBY
AGND1/2
CREF1/2
AVCC1/2
CLKCTL1/2
CLKIN1/2
CLKMODE1/2
HICSUB
IN1 (SW)
+Vdd1/2
+VCC_PRE
-VCC_PRE
GND
CH6OUT
CH5OUT
-VCC5_6
+VCC5_6
CH4-OUT
CH4+OUT
+VCC3_4
-VCC3_4
CH3+OUT
CH3-OUT
-PH2
+PH2
GND
+Vout2
+Vcc2
-Vout2
IC1SUB
-Vout1
+Vcc1
+Vout1
GND
+PH1
-PH1
CN5050
FRONT L
AGND
FRONT R
AGND
SUBWOOFER
AGND
SURROUND L
AGND
SURROUND R
AGND
CENTER
MODE_S
MODE_F
FHOP
DGND
MUTE_CSW
MOD_DA
TO B MAIN CIRCUIT (CN2011) on SCHEMATIC DIAGRAM-11
R5410 220
C5406 0.47
R5309 220
C5305 0.47
R5208 220
R5107 220
R5502 2.2K
R5067 100
R5066 100
R5065 100
C5067 1000P
C5063 16V10
C5066 1000P
C5062 16V10
R5506 22K
C5504 50V2.2
C5502 100P
R5504 47K
C5101 1000P
C5201 1000P
C5601 1000P
C5301 1000P
C5401 1000P
C5501 1000P
D5041 B0ACCK000005
R5057 4.7K
R5056 4.7K
R5063 10K
R5040 0
R5059 10K
Q5022
B1ABCF000011
MUTING (CENTER SW)
C5022 16V47
C5914 10V1
L5021 ELJPC220KFB
C5099 0.01
R5060 10K
Q5023
B1ABCF000011
MUTING
R5052 22K
C5021 16V56P
R5053 3.3K
R5050 22K
R5062 10K
Q5025
B1ABCF000011
MODE SELECTOR
R5051 22K
K5001 0
R5601 2.2K
R5605 22K
C5603 50V2.2
L5023 ELJPC220KFB
DC_DET
+12V
D5010 B0ACCK000005
C5602 100P
R5603 47K
C5025 16V56P
IC5004
C0CBADE00023
TERMINAL
IN GND OUT
C5002 16V100
C5003 16V100
C5001 16V100
C5011 0.1
IC5010
C0JBAB000472
INVERTER
VCC
GND
R5013 1M
R5012 100
R5011 10K
R5014 1M
R5015 1M
D5012 B0ACCE000003
D5013 B0ACCE000003
C5019 47P
C5018 47P
X5011 H2A415300001
X5010 H2A375300003
C5012 0.01
C5013 0.01
C5014 100P
C5015 390P
C5016 100P
C5017 390P
Q5014
B1ABCF000011
INVERTER
C5040 0.1
R5047 10K
R5046 47K
C5029 63V47P
C5030 63V47P
LB5071 J0JKB0000020
LB5072 J0JKB0000020
+30V
-30V
C5074 0.1
C5072 35V33P
C5073 0.1
C5071 35V33P
L5309 ETQA15A150T
C5318 0.68
C5431 100P
R5487 22
C5317 0.68
C5430 100P
R5386 22
C5487 0.1
R5311 5.6K
C5386 0.1
R5411 5.6K
C5077 35V470P
C5075 35V470P
C5078 35V470P
C5076 35V470P
L5207 ETQA15A150T
C5214 1
C5216 1
C5131 100P
R5282 22
C5282 0.1
R5209 5.6K
L5105 ETQA15A150T
R5516 0
R5514 0
C5113 0.68
C5230 100P
C5130 100P
R5181 22
C5181 0.1
R5110 5.6K
C5115 0.68
R5183 22
C5183 0.1
R5109 5.6K
R5519 8.2K
L5503 ETQA17A150T
R5517 22
C5532 0.1
C5512 0.68
C5531 100P
C5510 0.68
C5530 100P
L5601 ETQA17A150T
C5609 0.68
C5630 100P
C5611 0.68
C5631 100P
R5627 8.2K
C5028 63V220P
R5615 0
R5613 0
C5027 63V220P
R5074 4.7K
R5070 4.7K
C5020 0.1
D5031 B0BC3R400001
R5073 22K
R5072 1.5K
R5071 0
R5077 0
C5036 0.1
R5042 1
C5035 0.1
R5041 1
R5076 0
IC5002
C0ABBA000163
DUAL OP-AMP
-VCC
+VCC
R5094 1K
L5300 G0B9R5K00001
L5400 G0B9R5K00001
L5100 G0B9R5K00001
L5200 G0B9R5K00001
L5500 G0B9R5K00001
L5600 G0B9R5K00001
R5298 10K
R5080 10K
R5079 10K
C5231 100P
R5284 22K
R5210 5.6K
R5081 82K
R5082 82K
R5290 150K
C5098 1000P
R5099 47K
R5189 82K
R5197 10K
R5595 10K
C5097 50V10
R5626 10K
R5696 10K
R5518 10K
Q5096
B1ABCF000011
DC DETECT
Q5095
B1ABCF000011
DC DETECT
R5492 120K
R5391 68K
R5493 22K
C5096 6.3V100
R5037 47K
Q5031
B1ADBL000010
INVERTER
C5033 0.1
R5038 220K
R5039 220K
R5048 47K
R5049 1K
Q5002
B1ABCF000011
DC DETECT
Q5001
B1ABCF000011
DC DETECT
R5022 100K
R5023 220K
R5624 220K
R5021 100K
C5031 50V10
R5625 100K
Q5015
B1ADBL000010
VOLTAGE DETECT
JK5400
GND
GND
SL-
SR-
FL-
FR-
C-
SW-
SL+
SR+
FL+
FR+
C+
SW+
TO SPEAKERS

SA-HT940P/PC POWER(DAMP) CIRCUIT

SCHEMATIC DIAGRAM-13

C POWER(SMPS) CIRCUIT

—— :+B SIGNAL LINE ------ :-B SIGNAL LINE



H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13
Q5741
B1ABCF000011
FAN MOTOR DRIVE
Q5740
B1BACG000048
FAN MOTOR DRIVE
Q5742
B1ABCF000011
FAN MOTOR DRIVE
Q5744
B1ABCF000011
FAN MOTOR DRIVE
Q5932
B1ADCF000001
TRANSFORMER TEMP. DETECT
Q5930
B1ABCF000011
TRANSFORMER TEMP. DETECT
CN5714
TO FAN UNIT
FANDCOUT(+)
GND
FANLOCK
CN5704
TO FAN UNIT
FANDCOUT(+)
GND
FANLOCK
D5753
B0ACCK000005
D5754
B0ACCK000005
D5743
B0ACCK000005
D5744
B0ACCK000005
D5773
B0BC6R700006
D5740
B0BC01200019
DC_DET
SIGNAL
+12V
+50V
PGND
+30_VDD
PGND_30
-30_VDD
-VP
AM_BP
VCC_CONT
TH5702
D4CC11040013
T5701
ETS42BJ1D4AD
D5711
B0HBSM000043
D5717
B0HBSM000043
D5716
B0HBSM000043
D5718
B0HFRJ000012
L5751
J0JKB0000020
D5707
B0BC035A0037
D5705
B0EAMM000057
D5702
B0ZAZ0000052
D5710
B0EAMM000057
D5708
B0BC01700015
D5709
B0ACCK000005
D5706
B0EAMM000057
Q5701
2SC3940ARA
CURRENT LIMMITTING SWITCH
Q5747
B1GDCFJJ0047
SWITCHING
IC5701
C0DAAMH00004
SWITCHING REGULATOR
O.C.P./F.B.
S
D
VIN
GND
D5703
B0BC02900004
D5704
B0JAME000029
IC5705
C0CAAYG00011
+12V REGULATOR
Q5908
B1ACKD000005
REGULATOR
D5903
MAZ82200ML
Q5704
B1ADBL000010
SWITCHING
Q5751
2SC3940ARA
SWITCHING
D5726
B0BC7R500001
D5725
B0BC7R500001
D5772
B0ACCK000005
IC5702
C0DABFC00002
SHUNT REGULATOR
PC5701
B3PBA0000237
Q5702
B1ABCF000011
SWITCHING
IC5703
C0ABBB000067
DIFFERENTIAL AMP
Q5760
B1ABCF000011
BUFFER
D5771
B0BC01200019
Q5726
B1ABCF000011
INVERTER
Q5745
B3PBA0000237
FEED BACK
Q5746
B1GBCFJN0033
INVERTER
Q5753
B1ADCF000001
SWITCHING
L5704
J0JKB0000020
C5710
CAPACITOR
PCONT_LOW
PCONT
SYS6V
+20V
R5739 10K
R5748 10K
R5770 10K
C5792 6.3V220
R5798 8.2
R5736 1K
C5790 1000P
C5798 35V470
R5756 10K
R5755 10K
R5737 10
C5791 50V100
C5794 16V33
R5757 10K
C5795 0.1
R5758 3.3M
R5768 10K
R5769 10K
R5760 10K
R5759 100K
C5796 50V2.2
C5797 16V10
R5930 10K
R5934 10K
R5931 10K
R5933 8.2K
R5932 10K
R5794 3.3K
R5795 3.3K
R5791 3.3K
R5792 3.3K
C5781 0.01
C5782 0.01
C5741 35V2200P
C5784 0.1
C5785 0.01
C5780 0.01
C5742 35V2200P
C5783 0.01
C5743 35V470P
C5717 63V1800P
R5707 33K
R5706 33K
C5708 0.01
R5711 22
R5710 10K
C5713 1000P
R5709 2.2K
C5712 220P
R5717 4.7K
R5730 82K
R5729 1.5K
C5711 50V56P
C5709 470P
R5708 3.3K
R5703 680
R5704 0.82
R5705 0.82
R5788 10K
C5702 10V22P
R5913 47
C5913 50V220
R5917 2.2K
C5915 0.1
R5916 150
C5916 50V100
R5773 47
R5764 47
R5761 47
R5762 47
R5749 47
C5755 16V22
C5754 0.1
R5766 1.8K
R5797 47K
R5793 0
R5765 22K
R5763 2.2K
R5734 1.8K
R5733 1.8K
C5757 0.01
C5756 0.01
R5740 100K
C5761 0.022
R5713 220K
R5714 5.6K
R5746 47K
R5775 10K
C5720 0.1
R5715 15K
C5703 50V10P
R5712 2.2K
R5738 15K
R5720 10K
C5764 0.01
R5783 5.6K
R5719 10K
R5718 100K
R5731 5.6K
R5782 5.6K
R5799 1
R5735 0
R5721 470
R5732 5.6K
R5722 10K
R5743 10K
R5789 10K
R5741 1K
C5771 0.1
R5742 10K
C5721 0.1
R5744 15K
R5745 10K
C5722 0.1
R5779 1K
R5747 10K
R5796 10K
R5901 0
R5902 0

SA-HT940P/PC POWER(SMPS) CIRCUIT

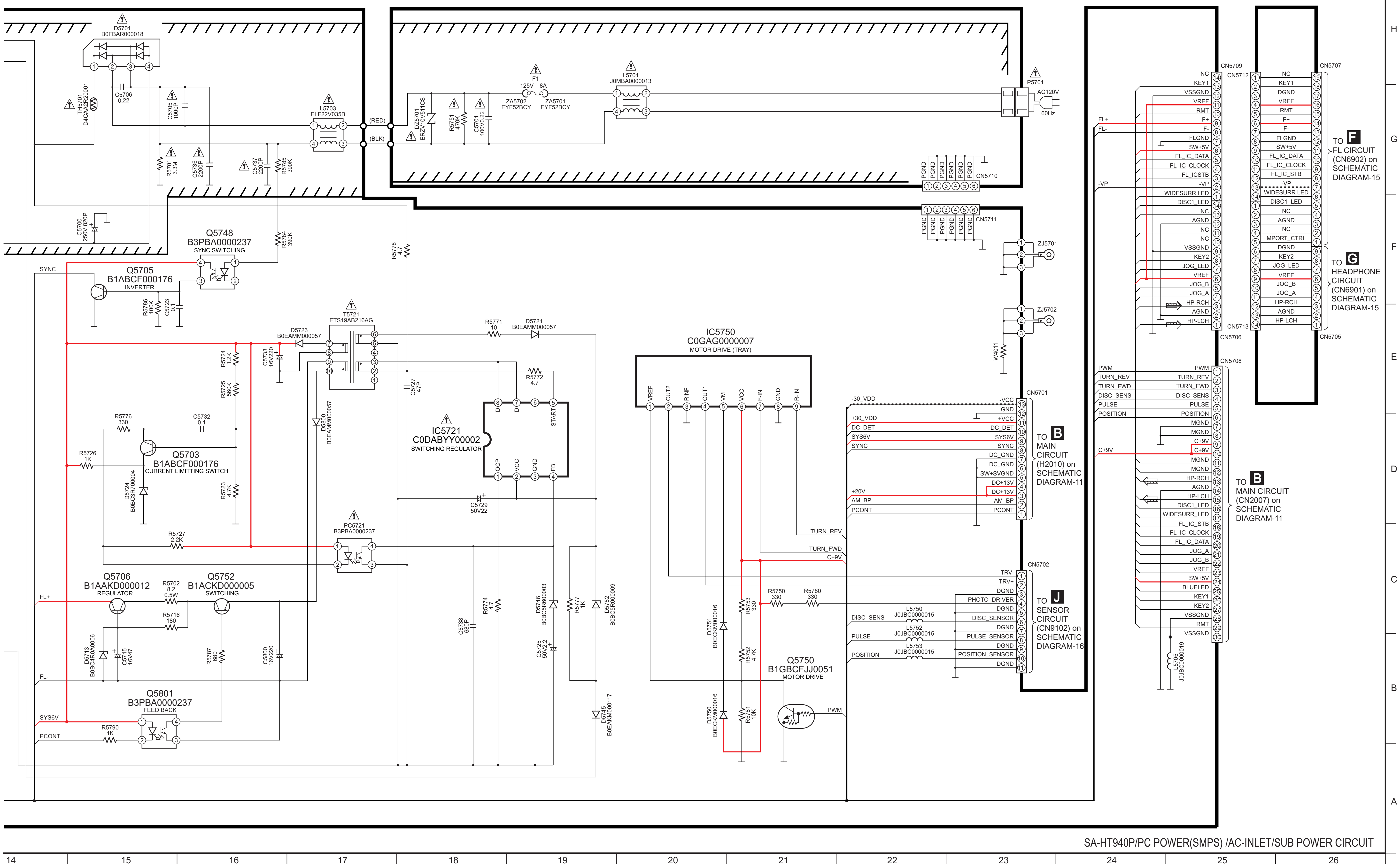
C POWER(SMPS) CIRCUIT

D AC-INLET CIRCUIT

E SUB POWER CIRCUIT

⇨ : MAIN SIGNAL LINE

— :+B SIGNAL LINE ---- :-B SIGNAL LINE

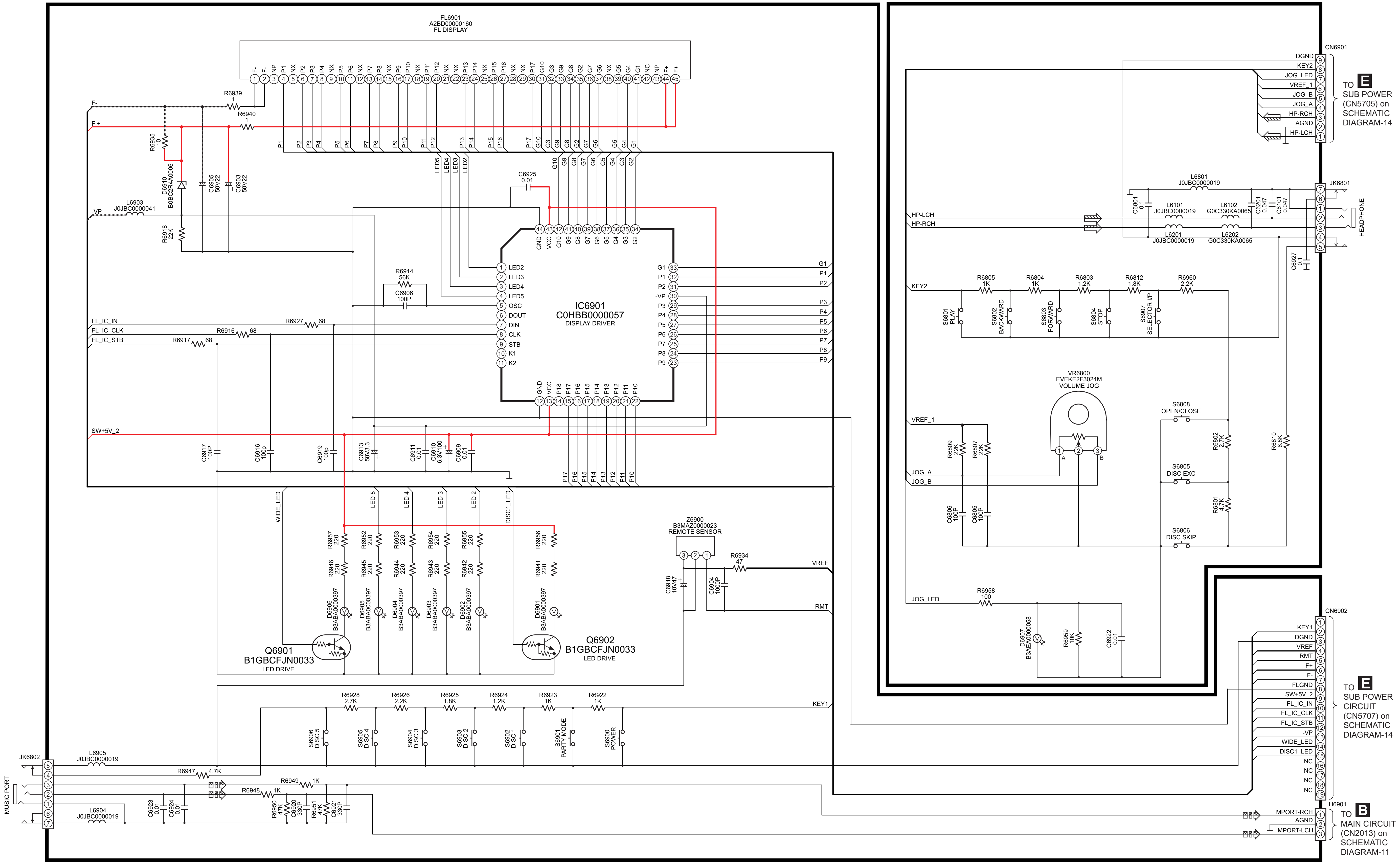

D5701
B0FBAR000018
TH5701
D4CAA2R20001
C5706
0.22
C5705
1000P
L5703
ELF22V035B
(RED)
(BLK)
R5701
3.3M
C5736
2200P
C5737
2200P
R5785
390K
C5700
250V 820P
Q5748
B3PBA0000237
SYNC SWITCHING
R5784
390K
SYNC
Q5705
B1ABCF000176
INVERTER
R5786
100K
C5723
0.1
R5778
4.7
T5721
ETS19AB216AG
D5723
B0EAMM000057
R5724
1.2K
C5733
16V220
R5725
560K
R5776
330
C5732
0.1
R5726
1K
Q5703
B1ABCF000176
CURRENT LIMITTING SWITCH
D5724
B0BC3R700004
R5723
4.7K
D5800
B0EAMM000057
C5727
47P
R5771
10
D5721
B0EAMM000057
R5772
4.7
IC5721
C0DABYY00002
SWITCHING REGULATOR
D D START OCP VCC GND FB
C5729
50V22
R5727
2.2K
PC5721
B3PBA0000237
Q5706
B1AAKD000012
REGULATOR
R5702
8.2
0.5W
Q5752
B1ACKD000005
SWITCHING
R5716
180
FL+
FL-
D5713
B0BC4R0A0006
C5715
16V47
R5787
680
C5800
16V220
C5738
680P
R5774
4.7
D5746
B0BC5R600003
C5725
50V2.2
R5777
1K
D5752
B0BC5R000009
D5745
B0EAKM000117
Q5801
B3PBA0000237
FEED BACK
SYS6V
PCONT
R5790
1K
F1
125V 8A
ZA5702
EYF52BCY
ZA5701
EYF52BCY
L5701
J0MBA0000013
DZ5701
ERZV10V511CS
R5751
470K
C5701
100V0.22
P5701
AC120V
60Hz
PGND PGND PGND PGND PGND PGND
CN5710
CN5711
ZJ5701
ZJ5702
W4011
IC5750
C0GAG0000007
MOTOR DRIVE (TRAY)
VREF OUT2 RINF OUT1 VM VCC F-IN GND R-IN
CN5701
-30_VDD
-VCC
GND
+30_VDD
+VCC
DC_DET
SYS6V
SYNC
DC_GND
SW+SVGND
DC+13V
+20V
AM_BP
PCONT
TO B MAIN CIRCUIT (H2010) on SCHEMATIC DIAGRAM-11
TURN_REV
TURN_FWD
C+9V
CN5702
TRV-
TRV+
DGND
PHOTO_DRIVER
DISC_SENS
DISC_SENSOR
PULSE
PULSE_SENSOR
POSITION
POSITION_SENSOR
L5750
J0JBC0000015
L5752
J0JBC0000015
L5753
J0JBC0000015
R5750
330
R5780
330
R5753
330
R5752
4.7K
R5781
10K
D5751
B0ECKM000016
D5750
B0ECKM000016
Q5750
B1GBCFJJ0051
MOTOR DRIVE
PWM
TO J SENSOR CIRCUIT (CN9102) on SCHEMATIC DIAGRAM-16
CN5709
CN5712
CN5707
CN5713
CN5706
CN5705
CN5708
NC
KEY1
VSSGND
VREF
RMT
F+
F-
FLGND
SW+5V
FL_IC_DATA
FL_IC_CLOCK
FL_IC_STB
FL_ICSTB
-VP
WIDESURR LED
DISC1_LED
AGND
KEY2
JOG_LED
JOG_B
JOG_A
HP-RCH
HP-LCH
DGND
MPORT_CTRL
TO F FL CIRCUIT (CN6902) on SCHEMATIC DIAGRAM-15
TO G HEADPHONE CIRCUIT (CN6901) on SCHEMATIC DIAGRAM-15
PWM
TURN_REV
TURN_FWD
DISC_SENS
PULSE
POSITION
MGND
C+9V
BLUELED
TO B MAIN CIRCUIT (CN2007) on SCHEMATIC DIAGRAM-11
L5705
J0JBC0000019
A B C D E F G H
14 15 16 17 18 19 20 21 22 23 24 25 26

SCHEMATIC DIAGRAM-15

F FL CIRCUIT

G HEADPHONE CIRCUIT

: +B SIGNAL LINE : -B SIGNAL LINE : MUSIC PORT SIGNAL LINE : MAIN SIGNAL LINE



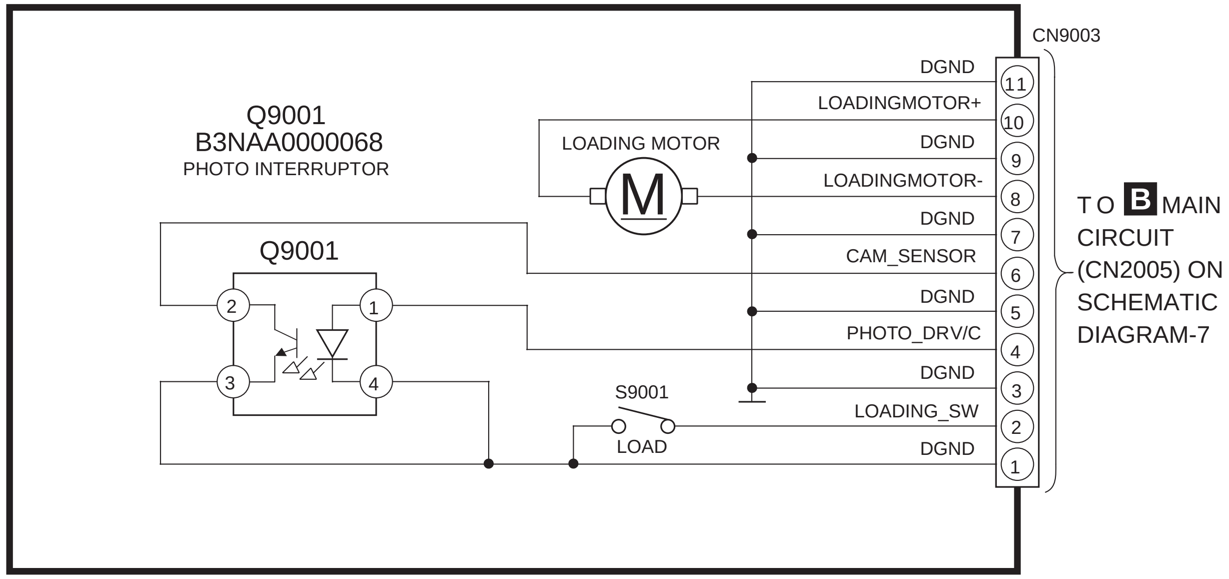
FL6901
A2BD00000160
FL DISPLAY
F- F- NP P1 NX P2 P3 P4 NX P5 P6 NX P7 P8 NX P9 P10 NX P11 P12 NX P13 P14 NX P15 P16 NX P17 G10 G3 G9 G8 G2 G7 G6 NX G5 G4 G1 NC NP F+ F+
R6939 1
R6940 1
F-
F+
R6935 10
D6910 B0BC2R4A0006
C6905 50V22
C6903 50V22
L6903 J0JBC0000041
-VP
R6918 22K
C6925 0.01
LED5 LED4 LED3 LED2
IC6901
C0HBB0000057
DISPLAY DRIVER
LED2 LED3 LED4 LED5 OSC DOUT DIN CLK STB K1 K2
GND VCC G10 G9 G8 G7 G6 G5 G4 G3 G2
G1 P1 P2 -VP P3 P4 P5 P6 P7 P8 P9
GND VCC P18 P17 P16 P15 P14 P13 P12 P11 P10
R6914 56K
C6906 100P
FL_IC_IN
FL_IC_CLK
FL_IC_STB
R6927 68
R6916 68
R6917 68
SW+5V_2
C6917 100P
C6916 100p
C6919 100p
C6913 50V3.3
C6911 0.01
C6910 6.3V100
C6909 0.01
WIDE_LED
LED 5
LED 4
LED 3
LED 2
DISC1_LED
R6957 220
R6952 220
R6953 220
R6954 220
R6955 220
R6956 220
R6946 220
R6945 220
R6944 220
R6943 220
R6942 220
R6941 220
D6906 B3ABA0000397
D6905 B3ABA0000397
D6904 B3ABA0000397
D6903 B3ABA0000397
D6902 B3ABA0000397
D6901 B3ABA0000397
Q6901
B1GBCFJN0033
LED DRIVE
Q6902
B1GBCFJN0033
LED DRIVE
Z6900
B3MAZ0000023
REMOTE SENSOR
R6934 47
C6918 10V47
C6904 1000P
VREF
RMT
KEY1
R6928 2.7K
R6926 2.2K
R6925 1.8K
R6924 1.2K
R6923 1K
R6922 1K
S6906 DISC 5
S6905 DISC 4
S6904 DISC 3
S6903 DISC 2
S6902 DISC 1
S6901 PARTY MODE
S6900 POWER
JK6802
MUSIC PORT
L6905 J0JBC0000019
L6904 J0JBC0000019
R6947 4.7K
R6949 1K
R6948 1K
C6923 0.01
C6924 0.01
R6950 47K
C6920 330P
R6951 47K
C6921 330P
CN6901
DGND KEY2 JOG_LED VREF_1 JOG_B JOG_A HP-RCH AGND HP-LCH
TO E SUB POWER (CN5705) on SCHEMATIC DIAGRAM-14
L6801 J0JBC0000019
JK6801
C6801 0.1
L6101 J0JBC0000019
L6102 G0C330KA0065
C6201 0.047
C6101 0.047
L6201 J0JBC0000019
L6202 G0C330KA0065
HP-LCH
HP-RCH
HEADPHONE
C6927 0.1
KEY2
R6805 1K
R6804 1K
R6803 1.2K
R6812 1.8K
R6960 2.2K
S6801 PLAY
S6802 BACKWARD
S6803 FORWARD
S6804 STOP
S6907 SELECTOR I/P
VR6800
EVEKE2F3024M
VOLUME JOG
VREF_1
R6809 22K
R6807 22K
JOG_A
JOG_B
S6808 OPEN/CLOSE
S6805 DISC EXC
S6806 DISC SKIP
R6802 2.7K
R6801 4.7K
R6810 6.8K
C6806 100P
C6805 100P
JOG_LED
R6958 100
D6907 B3AEA0000058
R6959 10K
C6922 0.01
CN6902
KEY1 DGND VREF RMT F+ F- FLGND SW+5V_2 FL_IC_IN FL_IC_CLK FL_IC_STB -VP WIDE_LED DISC1_LED NC NC NC NC
TO E SUB POWER CIRCUIT (CN5707) on SCHEMATIC DIAGRAM-14
H6901
MPORT-RCH AGND MPORT-LCH
TO B MAIN CIRCUIT (CN2013) on SCHEMATIC DIAGRAM-11

H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13

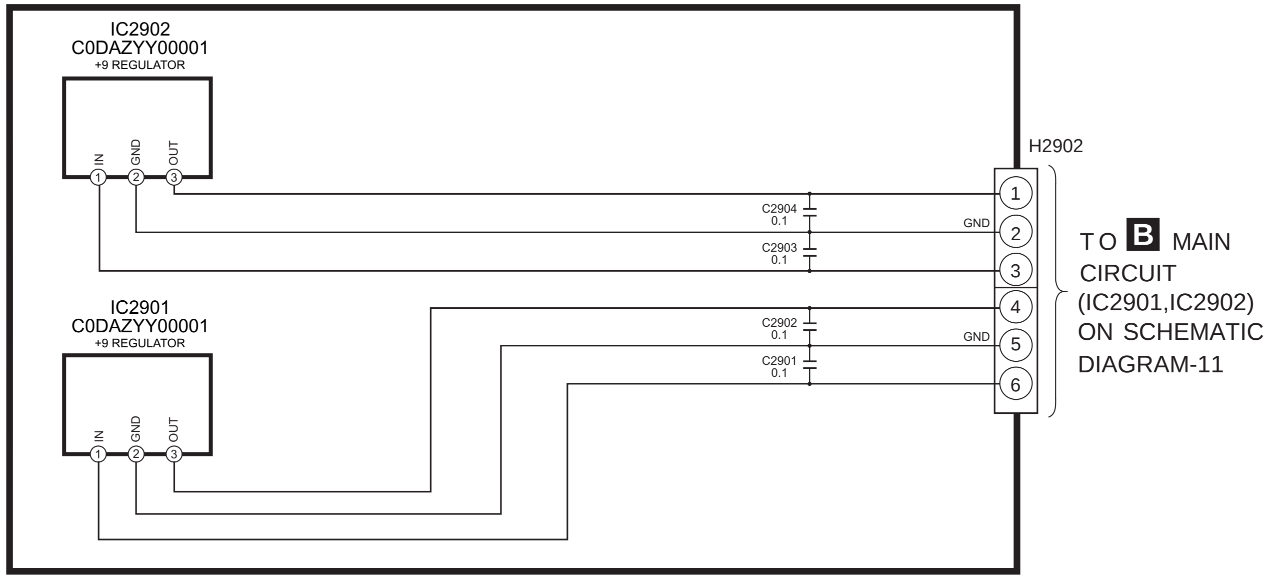
SCHEMATIC DIAGRAM-16

H LOADING MOTOR CIRCUIT



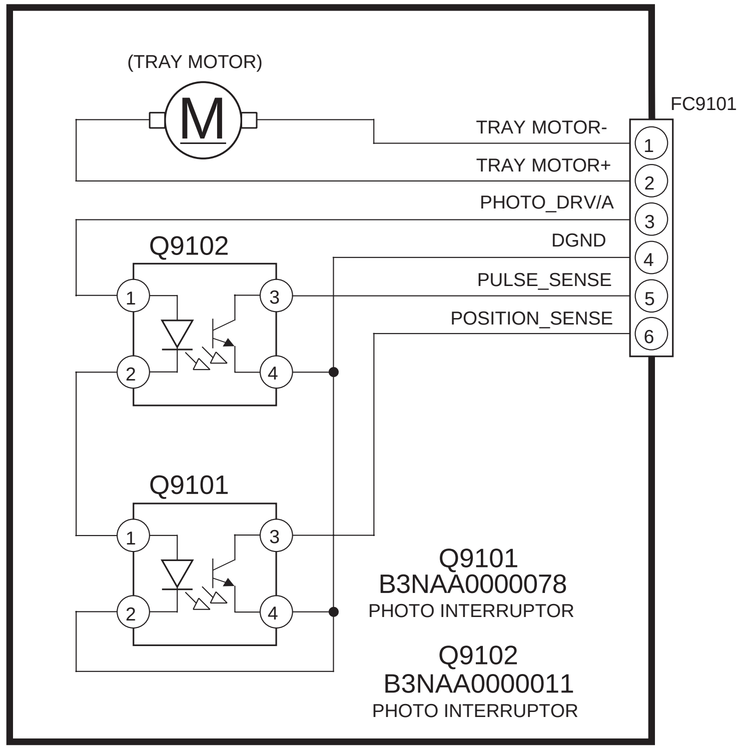
CN9003
Q9001
B3NAA0000068
PHOTO INTERRUPTOR
LOADING MOTOR
M
Q9001
1
2
3
4
S9001
LOAD
DGND
LOADINGMOTOR+
DGND
LOADINGMOTOR-
DGND
CAM_SENSOR
DGND
PHOTO_DRV/C
DGND
LOADING_SW
DGND
11
10
9
8
7
6
5
4
3
2
1
TO B MAIN CIRCUIT (CN2005) ON SCHEMATIC DIAGRAM-7

K REGULATOR CIRCUIT



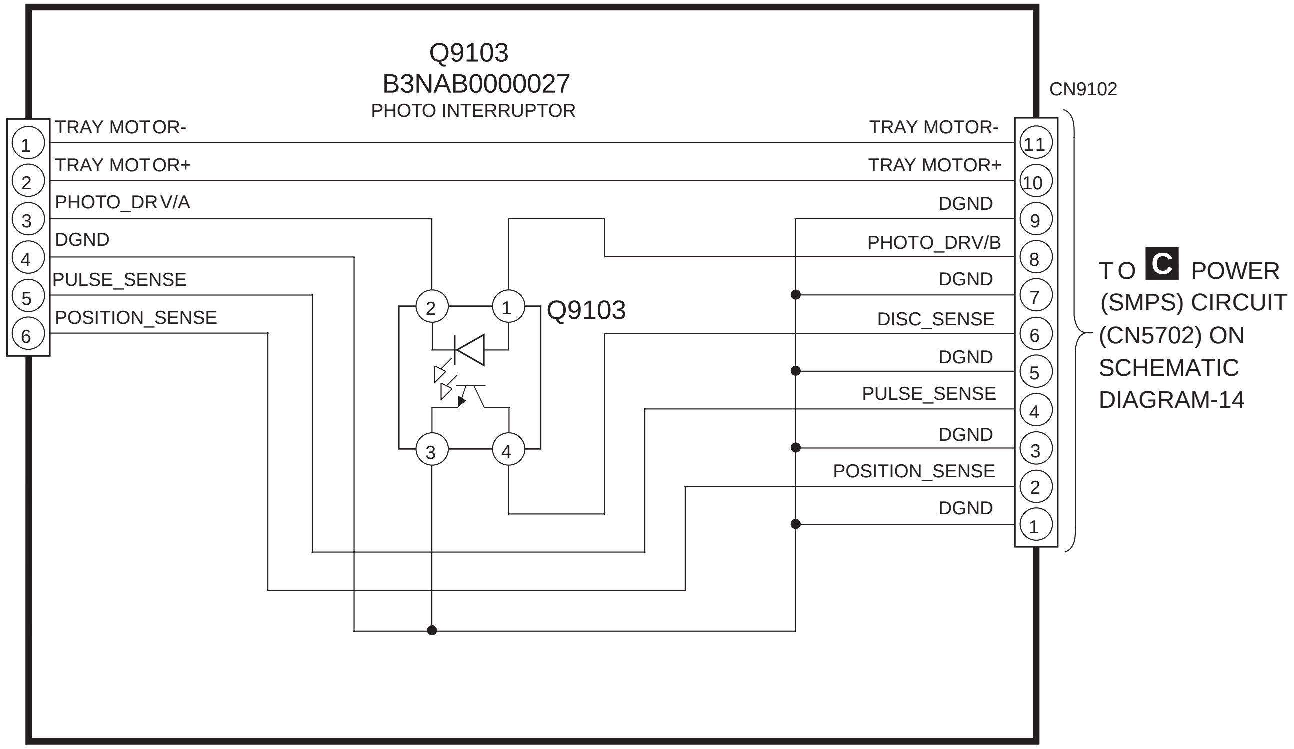
IC2902
C0DAZYY00001
+9 REGULATOR
IN
GND
OUT
IC2901
C0DAZYY00001
+9 REGULATOR
IN
GND
OUT
C2904 0.1
C2903 0.1
C2902 0.1
C2901 0.1
GND
GND
H2902
1
2
3
4
5
6
TO B MAIN CIRCUIT (IC2901,IC2902) ON SCHEMATIC DIAGRAM-11

I TRAY MOTOR CIRCUIT



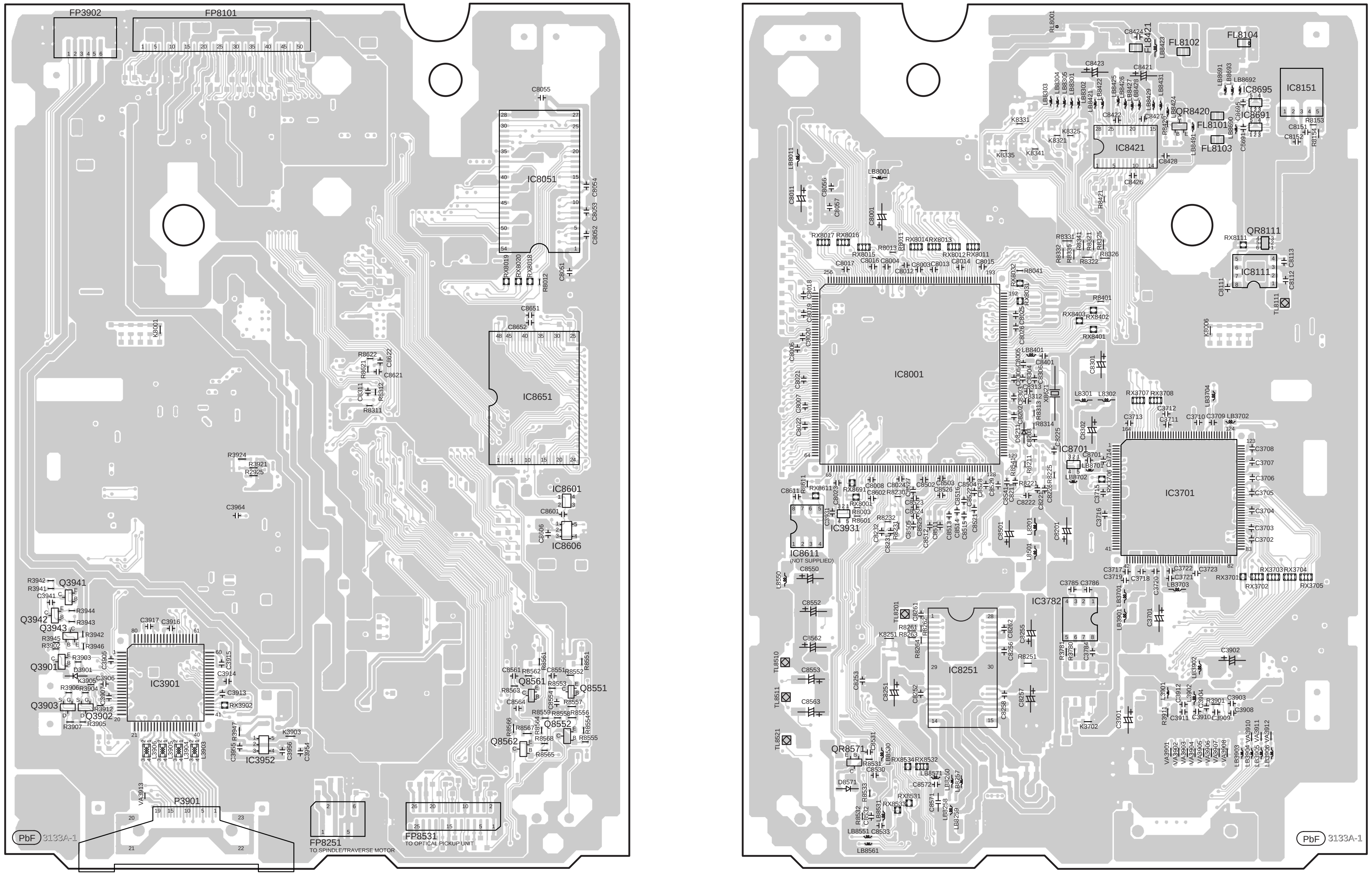
(TRAY MOTOR)
M
FC9101
TRAY MOTOR-
TRAY MOTOR+
PHOTO_DRV/A
DGND
PULSE_SENSE
POSITION_SENSE
1
2
3
4
5
6
Q9102
Q9101
Q9101
B3NAA0000078
PHOTO INTERRUPTOR
Q9102
B3NAA0000011
PHOTO INTERRUPTOR

J SENSOR CIRCUIT



Q9103
B3NAB0000027
PHOTO INTERRUPTOR
CN9102
TRAY MOTOR-
TRAY MOTOR+
PHOTO_DRV/A
DGND
PULSE_SENSE
POSITION_SENSE
1
2
3
4
5
6
Q9103
TRAY MOTOR-
TRAY MOTOR+
DGND
PHOTO_DRV/B
DGND
DISC_SENSE
DGND
PULSE_SENSE
DGND
POSITION_SENSE
DGND
11
10
9
8
7
6
5
4
3
2
1
TO C POWER (SMPS) CIRCUIT (CN5702) ON SCHEMATIC DIAGRAM-14

A HDMI MODULE P.C.B. (REP4034B)


FP3902
FP8101
IC8051
IC8651
IC8601
IC8606
IC3901
IC3952
Q3941
Q3942
Q3943
Q3901
Q3903
Q3902
Q8561
Q8551
Q8552
Q8562
P3901
FP8251
TO SPINDLE/TRAVERSE MOTOR
FP8531
TO OPTICAL PICKUP UNIT
PbF
3133A-1
FL8102
FL8104
IC8151
IC6695
QR8420
IC8691
FL8101
FL8103
IC8421
QR8111
IC8111
IC8001
C8701
IC3701
IC8611
(NOT SUPPLIED)
IC3931
IC3782
IC8251
QR8571
PbF
3133A-1

(SIDE A)

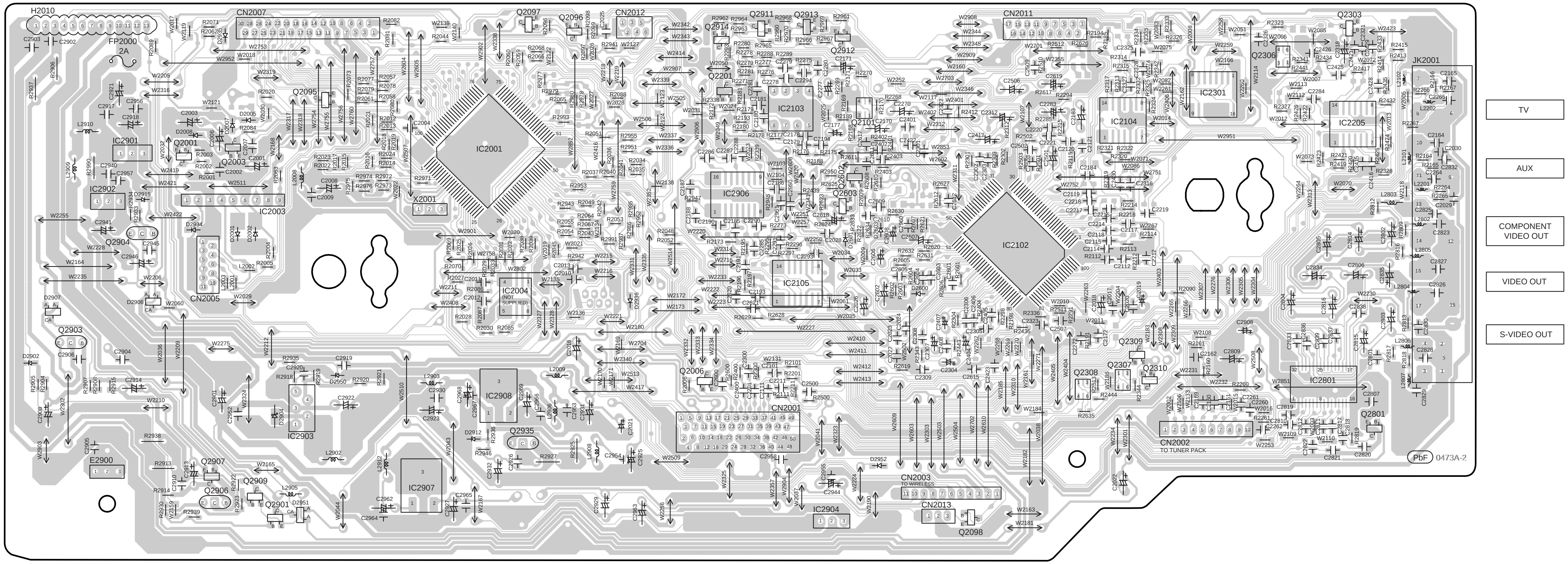
(SIDE B)

SA-HT940P/PC HDMI MODULE P.C.B.

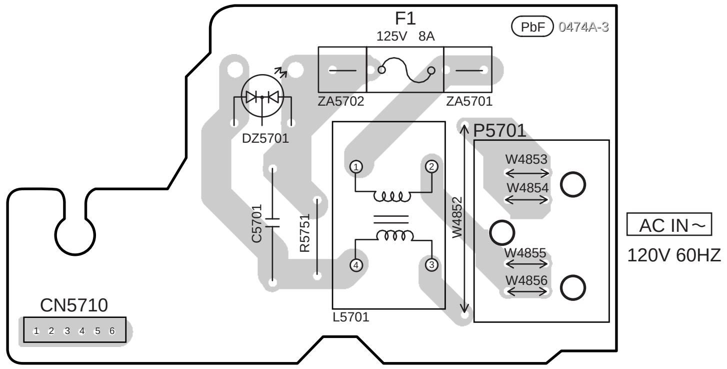
A B C D E F G H I J K L M N

1 2 3 4 5 6 7 8 9

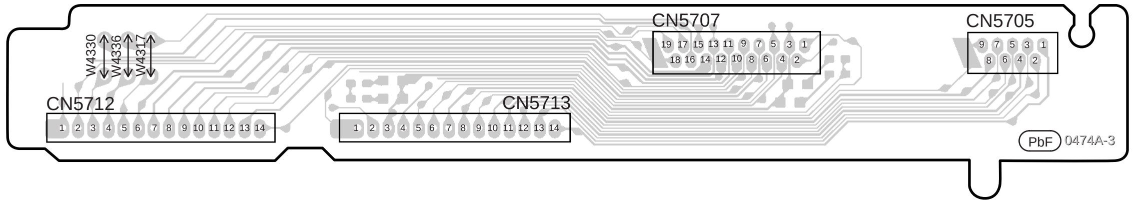
B MAIN P.C.B. (REPX0505A)


H2010
CN2007
FP2000
2A
Q2097
Q2096
CN2012
Q2911
Q2913
Q2914
Q2912
CN2011
Q2303
Q2306
JK2001
IC2001
IC2103
IC2104
IC2301
IC2205
IC2901
IC2902
IC2003
IC2906
IC2102
X2001
Q2095
Q2001
Q2003
Q2201
Q2101
Q2603
Q2904
Q2903
CN2005
IC2004
(NOT SUPPLIED)
IC2105
IC2903
IC2908
Q2006
CN2001
Q2308
Q2307
Q2309
Q2310
IC2801
CN2002
TO TUNER PACK
Q2801
E2900
Q2907
Q2909
Q2906
Q2901
Q2935
IC2907
CN2003
TO WIRELESS
IC2904
CN2013
Q2098
PbF
0473A-2
TV
AUX
COMPONENT VIDEO OUT
VIDEO OUT
S-VIDEO OUT

D AC-INLET P.C.B. (REPX0540A)


F1
125V 8A
PbF
0474A-3
ZA5702
ZA5701
DZ5701
P5701
W4853
W4854
C5701
R5751
W4852
W4855
W4856
L5701
AC IN～
120V 60HZ
CN5710
1 2 3 4 5 6

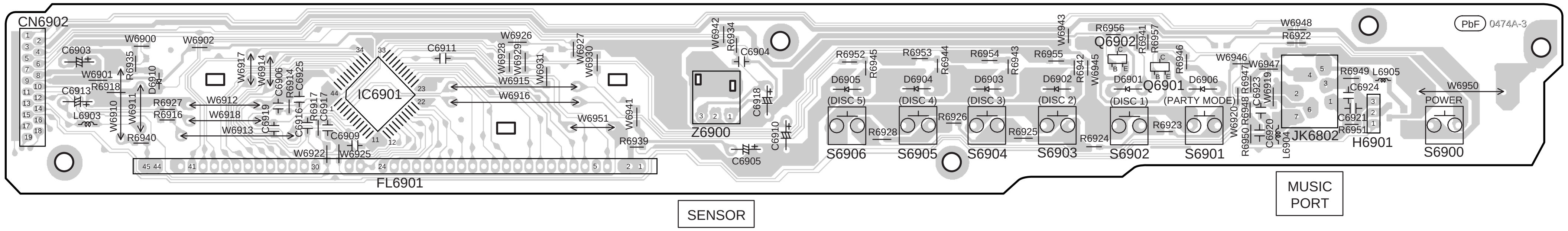
E SUB POWER P.C.B. (REPX0540A)


W4330
W4336
W4317
CN5707
CN5705
CN5712
CN5713
PbF
0474A-3

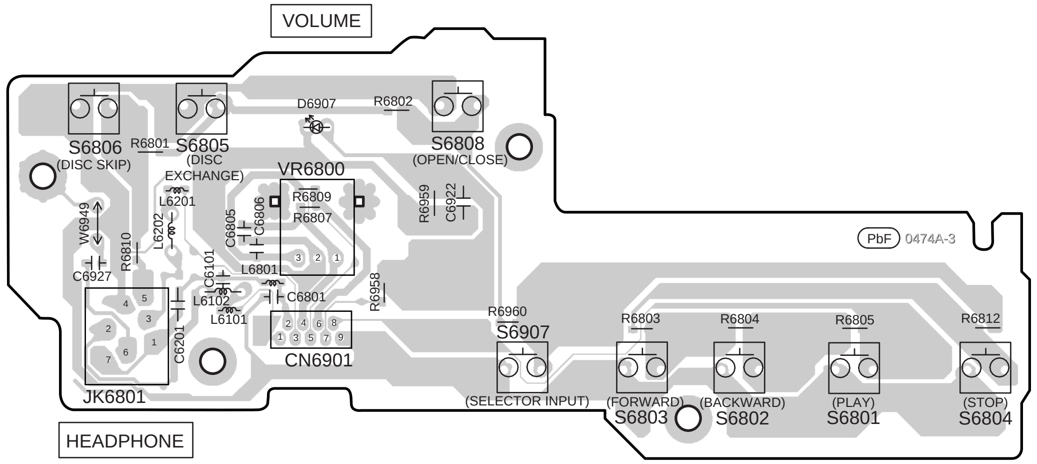
A B C D E F G H I J K L M N

1 2 3 4 5 6 7 8 9

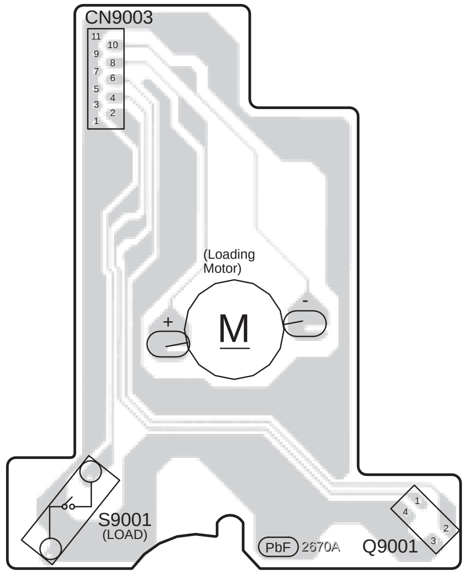
F FL P.C.B. (REPX0540A)


CN6902
C6903
W6901
R6918
C6913
L6903
W6900
W6902
R6935
D6910
W6911
W6910
R6940
R6927
R6916
W6912
W6918
W6913
W6917
W6914
C6906
R6914
C6925
C6919
C6916
R6917
C6917
C6909
W6922
W6925
IC6901
C6911
W6926
W6928
W6929
W6915
W6931
W6916
W6927
W6930
W6951
W6941
R6939
FL6901
W6942
R6934
C6904
Z6900
C6918
C6910
C6905
SENSOR
R6952
R6945
D6905
(DISC 5)
R6928
S6906
R6953
D6904
(DISC 4)
R6926
S6905
R6944
R6954
D6903
(DISC 3)
R6925
S6904
R6943
R6955
D6902
(DISC 2)
R6924
S6903
W6943
R6942
W6945
R6956
Q6902
R6941
R6957
D6901
(DISC 1)
Q6901
S6902
R6946
D6906
(PARTY MODE)
R6923
S6901
W6946
W6947
W6948
R6922
R6947
C6923
W6919
W6920
R6948
R6950
C6920
L6904
JK6802
R6949
L6905
C6924
C6921
R6951
H6901
W6950
POWER
S6900
MUSIC PORT
PbF 0474A-3

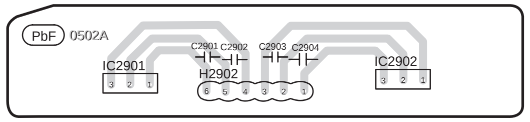
G HEADPHONE P.C.B. (REPX0540A)


VOLUME
S6806
(DISC SKIP)
R6801
S6805
(DISC EXCHANGE)
D6907
R6802
S6808
(OPEN/CLOSE)
VR6800
R6809
R6807
R6959
C6922
L6201
L6202
W6949
R6810
C6927
C6805
C6806
C6101
L6801
L6102
L6101
C6801
R6958
C6201
JK6801
CN6901
HEADPHONE
PbF 0474A-3
R6960
S6907
(SELECTOR INPUT)
R6803
(FORWARD)
S6803
R6804
(BACKWARD)
S6802
R6805
(PLAY)
S6801
R6812
(STOP)
S6804

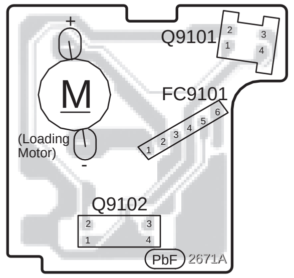
H LOADING MOTOR P.C.B. (REP3465B)


CN9003
(Loading Motor)
+
-
M
S9001
(LOAD)
PbF 2670A
Q9001

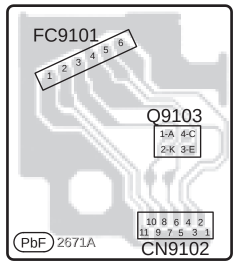
K REGULATOR P.C.B. (REPX0549A)


PbF 0502A
IC2901
C2901
C2902
C2903
C2904
H2902
IC2902

I TRAY MOTOR P.C.B. (REP3466B)

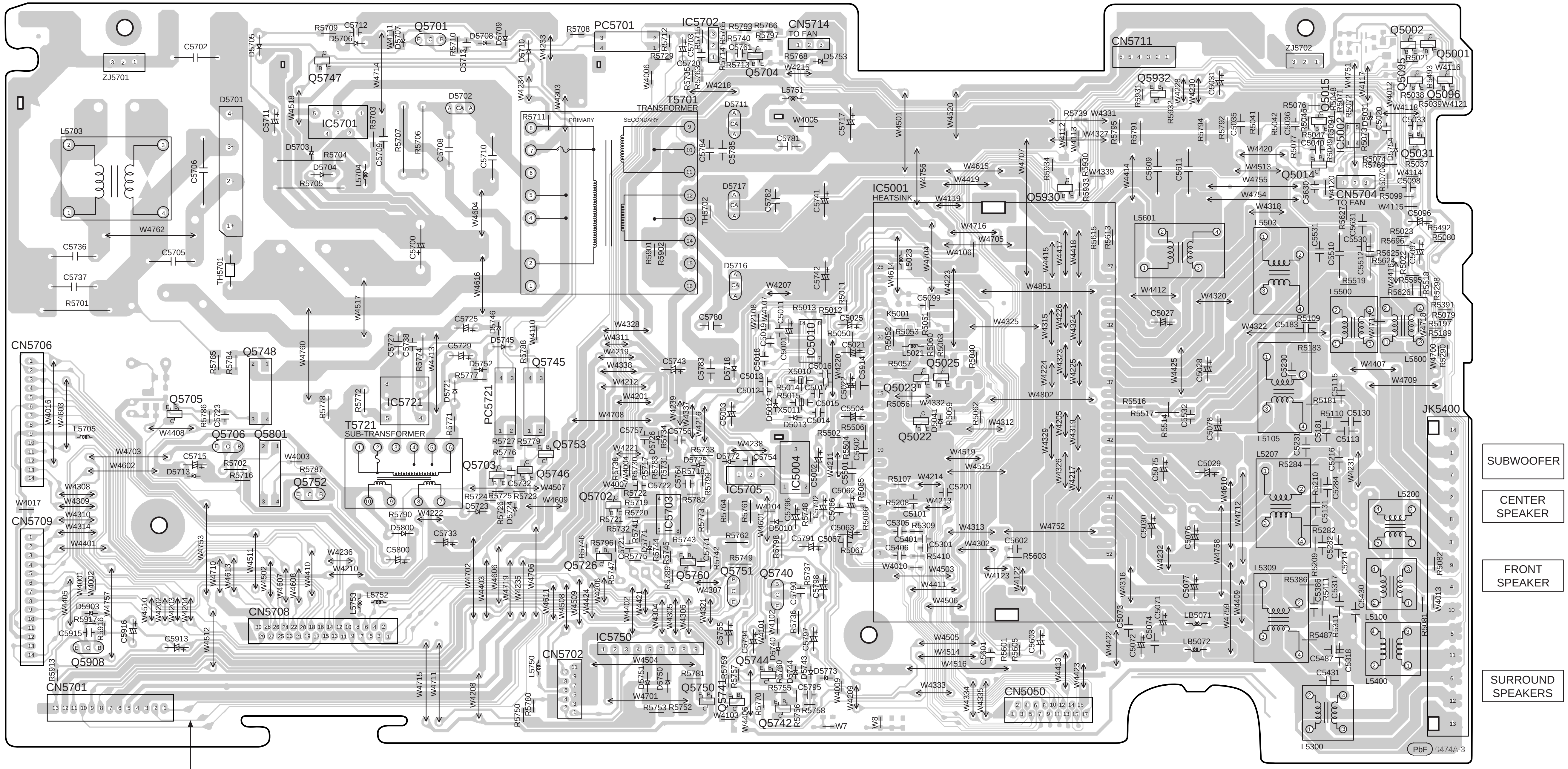

+
M
(Loading Motor)
-
Q9101
FC9101
Q9102
PbF 2671A

J SENSOR P.C.B. (REP3466B)


FC9101
Q9103
PbF 2671A
CN9102

SA-HT940P/PC FL/HEADPHONE/LOADING MOTOR/TRAY MOTOR/SENSOR/REGULATOR P.C.B.

C POWER P.C.B. (REPX0540A)

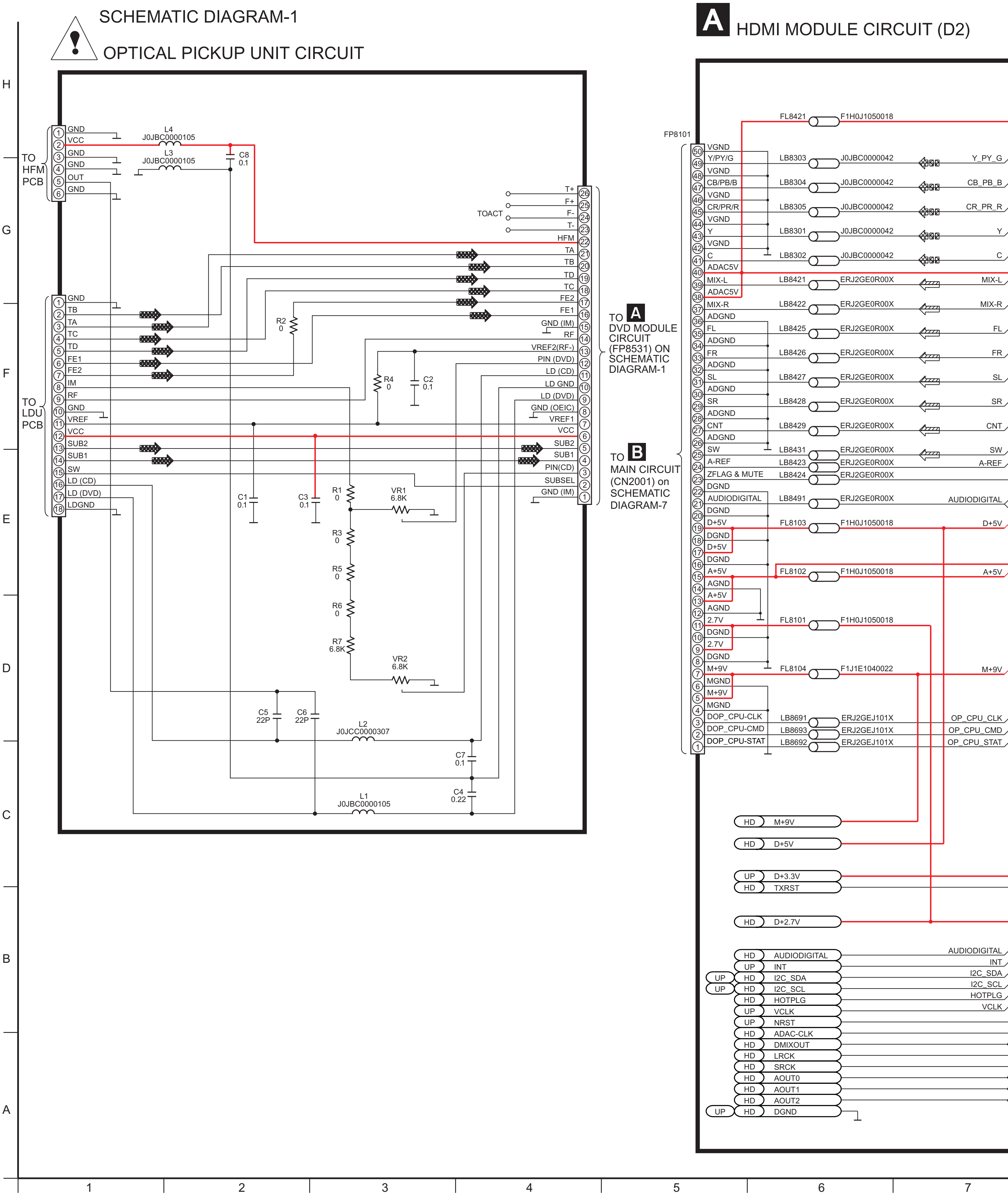

A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
ZJ5701
L5703
D5701
TH5701
IC5701
Q5701
Q5747
Q5748
Q5705
Q5706
Q5801
Q5752
Q5908
PC5701
PC5721
IC5702
CN5714
TO FAN
Q5704
T5701
TRANSFORMER
PRIMARY
SECONDARY
T5721
SUB-TRANSFORMER
IC5721
Q5745
Q5753
Q5703
Q5746
Q5702
IC5703
Q5726
Q5760
Q5751
Q5740
Q5744
Q5750
Q5741
Q5742
IC5750
CN5702
CN5701
CN5706
CN5709
CN5708
IC5705
IC5004
IC5010
X5010
Q5023
Q5025
Q5022
K5001
IC5001
HEATSINK
CN5711
Q5932
Q5930
ZJ5702
Q5002
Q5001
Q5095
Q5096
Q5015
IC5002
Q5031
Q5014
CN5704
TO FAN
L5601
L5503
L5500
L5600
L5105
L5207
L5200
L5309
L5100
L5400
L5300
JK5400
CN5050
LB5071
LB5072
SUBWOOFER
CENTER SPEAKER
FRONT SPEAKER
SURROUND SPEAKERS
PbF
0474A-3

CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B

SA-HT940P/PC POWER P.C.B.

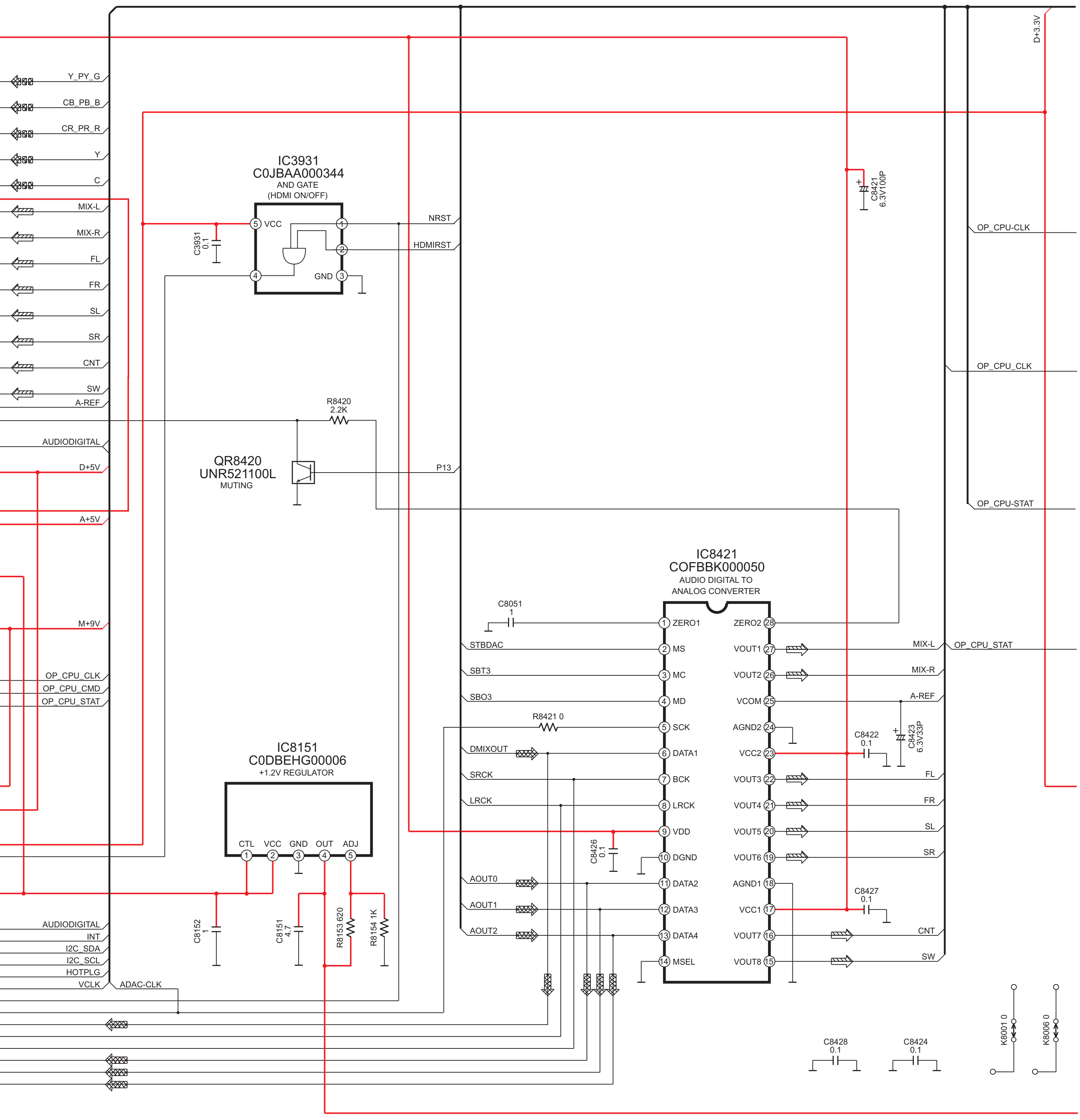
19 Schematic Diagram

19.1. (A) HDMI Module Circuit


SCHEMATIC DIAGRAM-1
OPTICAL PICKUP UNIT CIRCUIT
A
HDMI MODULE CIRCUIT (D2)
TO HFM PCB
GND
VCC
GND
GND
OUT
GND
L4 J0JBC0000105
L3 J0JBC0000105
C8 0.1
TO LDU PCB
GND
TB
TA
TC
TD
FE1
FE2
IM
RF
GND
VREF
VCC
SUB2
SUB1
SW
LD (CD)
LD (DVD)
LDGND
TOACT
T+
F+
F-
T-
HFM
TA
TB
TD
TC
FE2
FE1
GND (IM)
RF
VREF2(RF-)
PIN (DVD)
LD (CD)
LD GND
LD (DVD)
GND (OEIC)
VREF1
VCC
SUB2
SUB1
PIN(CD)
SUBSEL
GND (IM)
R2 0
R4 0
C2 0.1
C1 0.1
C3 0.1
R1 0
VR1 6.8K
R3 0
R5 0
R6 0
R7 6.8K
VR2 6.8K
C5 22P
C6 22P
L2 J0JCC0000307
C7 0.1
C4 0.22
L1 J0JBC0000105
TO A DVD MODULE CIRCUIT (FP8531) ON SCHEMATIC DIAGRAM-1
TO B MAIN CIRCUIT (CN2001) on SCHEMATIC DIAGRAM-7
FP8101
VGND
Y/PY/G
VGND
CB/PB/B
VGND
CR/PR/R
VGND
Y
VGND
C
ADAC5V
MIX-L
ADAC5V
MIX-R
ADGND
FL
ADGND
FR
ADGND
SL
ADGND
SR
ADGND
CNT
ADGND
SW
A-REF
ZFLAG & MUTE
DGND
AUDIODIGITAL
DGND
D+5V
DGND
D+5V
DGND
A+5V
AGND
A+5V
AGND
2.7V
DGND
2.7V
DGND
M+9V
MGND
M+9V
MGND
DOP_CPU-CLK
DOP_CPU-CMD
DOP_CPU-STAT
FL8421 F1H0J1050018
LB8303 J0JBC0000042 Y_PY_G
LB8304 J0JBC0000042 CB_PB_B
LB8305 J0JBC0000042 CR_PR_R
LB8301 J0JBC0000042 Y
LB8302 J0JBC0000042 C
LB8421 ERJ2GE0R00X MIX-L
LB8422 ERJ2GE0R00X MIX-R
LB8425 ERJ2GE0R00X FL
LB8426 ERJ2GE0R00X FR
LB8427 ERJ2GE0R00X SL
LB8428 ERJ2GE0R00X SR
LB8429 ERJ2GE0R00X CNT
LB8431 ERJ2GE0R00X SW
LB8423 ERJ2GE0R00X A-REF
LB8424 ERJ2GE0R00X
LB8491 ERJ2GE0R00X AUDIODIGITAL
FL8103 F1H0J1050018 D+5V
FL8102 F1H0J1050018 A+5V
FL8101 F1H0J1050018
FL8104 F1J1E1040022 M+9V
LB8691 ERJ2GEJ101X OP_CPU_CLK
LB8693 ERJ2GEJ101X OP_CPU_CMD
LB8692 ERJ2GEJ101X OP_CPU_STAT
HD M+9V
HD D+5V
UP D+3.3V
HD TXRST
HD D+2.7V
HD AUDIODIGITAL
UP INT
UP HD I2C_SDA
UP HD I2C_SCL
HD HOTPLG
UP VCLK
UP NRST
HD ADAC-CLK
HD DMIXOUT
HD LRCK
HD SRCK
HD AOUT0
HD AOUT1
HD AOUT2
UP HD DGND
AUDIODIGITAL
INT
I2C_SDA
I2C_SCL
HOTPLG
VCLK
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7

UIT (D2)

:MAIN SIGNAL LINE   :DVD(VIDEO) SIGNAL LINE   :DVD(AUDIO) SIGNAL LINE   :+B SIGNAL LINE


Y_PY_G
CB_PB_B
CR_PR_R
Y
C
MIX-L
MIX-R
FL
FR
SL
SR
CNT
SW
A-REF
AUDIODIGITAL
D+5V
A+5V
M+9V
OP_CPU_CLK
OP_CPU_CMD
OP_CPU_STAT
AUDIODIGITAL
INT
I2C_SDA
I2C_SCL
HOTPLG
VCLK
ADAC-CLK
IC3931
C0JBAA000344
AND GATE
(HDMI ON/OFF)
VCC
GND
C3931
0.1
NRST
HDMIRST
R8420
2.2K
QR8420
UNR521100L
MUTING
P13
IC8151
C0DBEHG00006
+1.2V REGULATOR
CTL
VCC
GND
OUT
ADJ
C8152
1
C8151
4.7
R8153 620
R8154 1K
C8051
1
STBDAC
SBT3
SBO3
R8421 0
DMIXOUT
SRCK
LRCK
C8426
0.1
AOUT0
AOUT1
AOUT2
IC8421
C0FBBK000050
AUDIO DIGITAL TO
ANALOG CONVERTER
ZERO1
MS
MC
MD
SCK
DATA1
BCK
LRCK
VDD
DGND
DATA2
DATA3
DATA4
MSEL
ZERO2
VOUT1
VOUT2
VCOM
AGND2
VCC2
VOUT3
VOUT4
VOUT5
VOUT6
AGND1
VCC1
VOUT7
VOUT8
MIX-L
MIX-R
A-REF
FL
FR
SL
SR
CNT
SW
C8421
6.3V100P
C8422
0.1
C8423
6.3V33P
C8427
0.1
C8428
0.1
C8424
0.1
K8001 0
K8006 0
D+3.3V
OP_CPU-CLK
OP_CPU_CLK
OP_CPU-STAT
OP_CPU_STAT

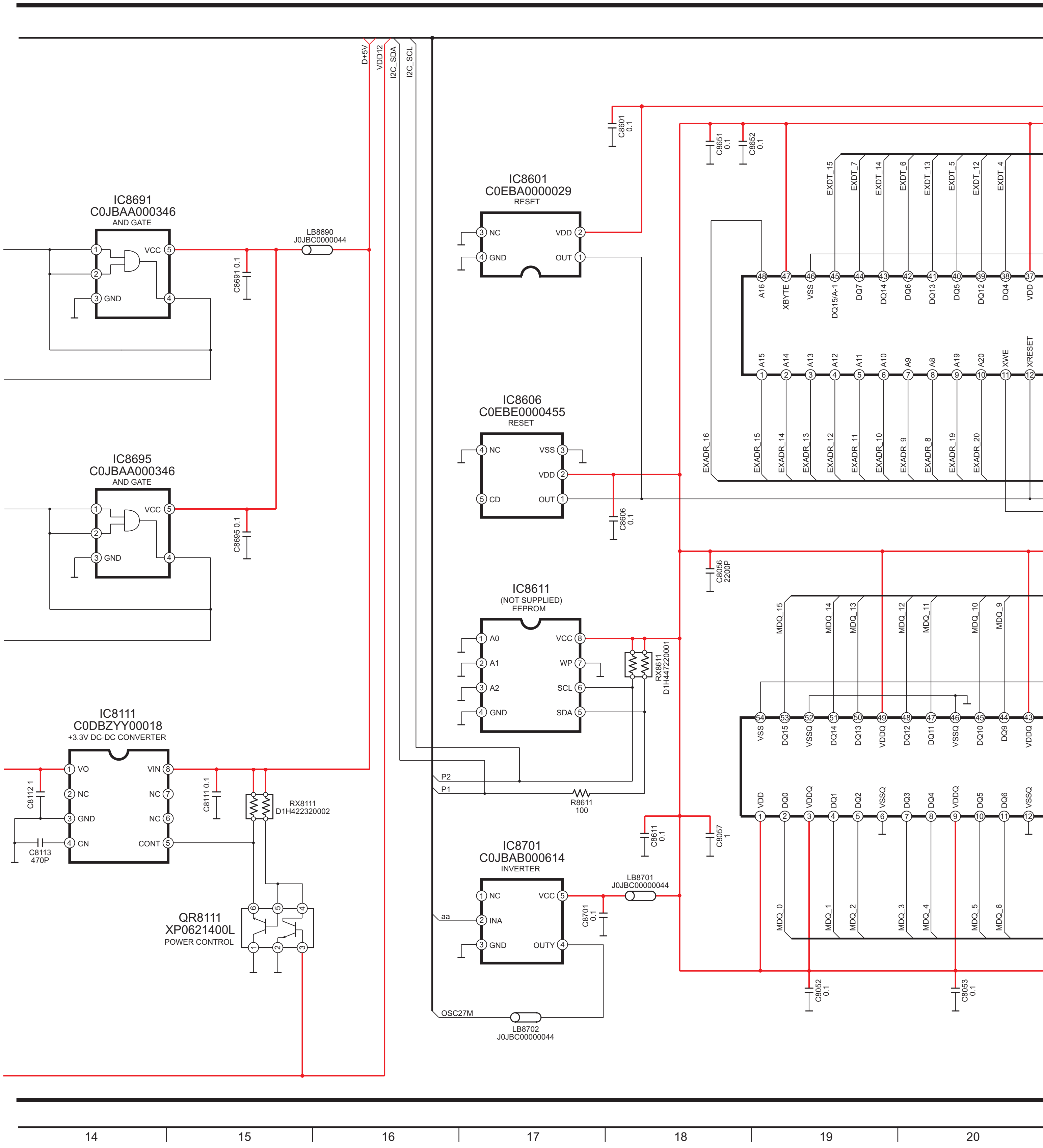
SA-HT940P/PC HDMI MODULE(D2)/OPTICAL PICKUP UNIT CIRCUIT

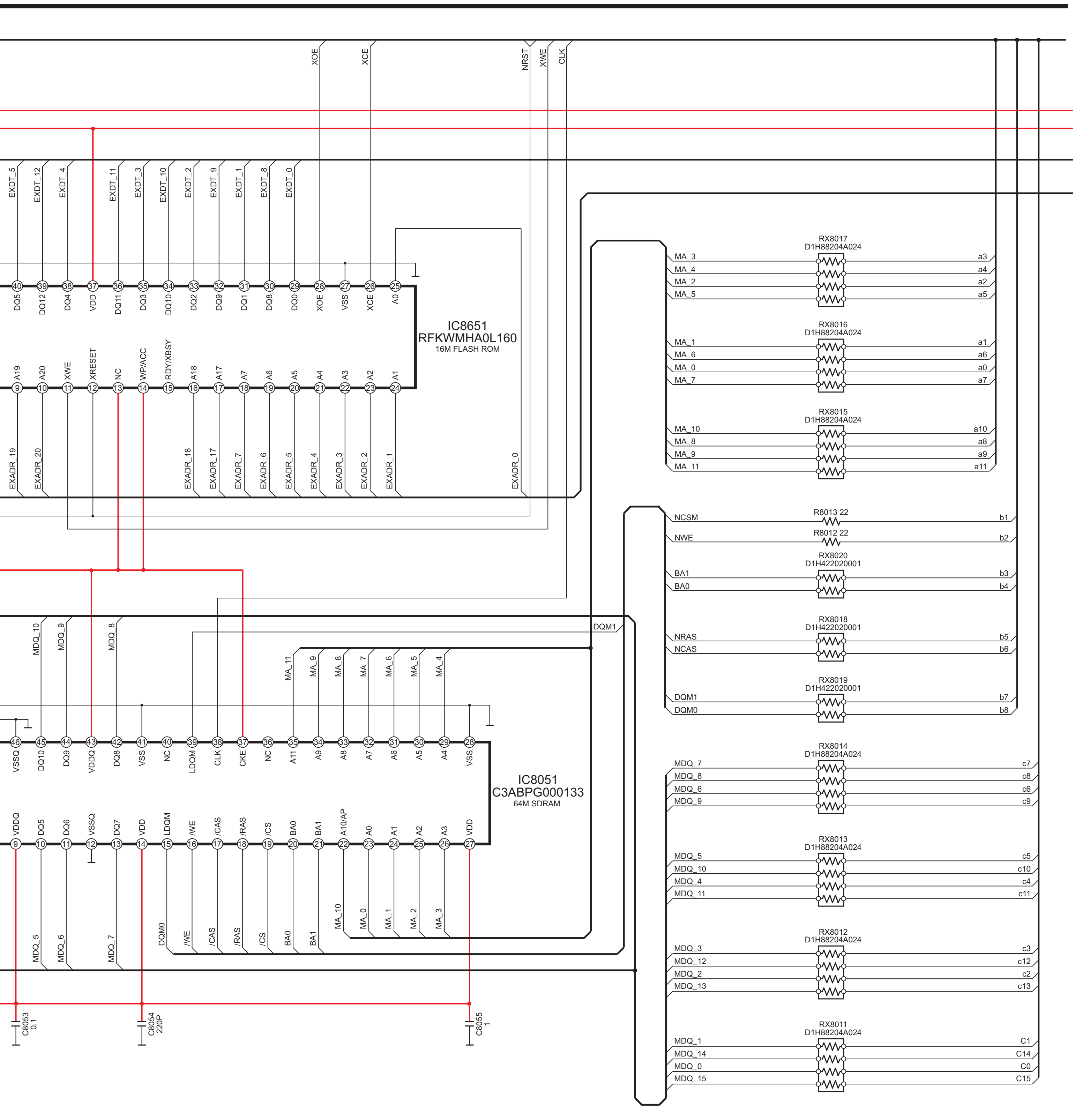
7   8   9   10   11   12   13

SCHEMATIC DIAGRAM-2

A HDMI MODULE CIRCUIT (D2)

:+B SIGNAL LINE


D+5V
VDD12
I2C_SDA
I2C_SCL
IC8691
C0JBAA000346
AND GATE
VCC
GND
LB8690
J0JBC0000044
C8691 0.1
IC8695
C0JBAA000346
AND GATE
C8695 0.1
IC8111
C0DBZYY00018
+3.3V DC-DC CONVERTER
VO
NC
GND
CN
VIN
CONT
C8112 1
C8113
470P
C8111 0.1
RX8111
D1H422320002
QR8111
XP0621400L
POWER CONTROL
IC8601
C0EBA0000029
RESET
VDD
OUT
C8601
0.1
IC8606
C0EBE0000455
RESET
VSS
CD
C8606
0.1
IC8611
(NOT SUPPLIED)
EEPROM
A0
A1
A2
WP
SCL
SDA
RX8611
D1H447220001
P2
P1
R8611
100
IC8701
C0JBAB000614
INVERTER
INA
OUTY
aa
C8701
0.1
LB8701
J0JBC00000044
OSC27M
LB8702
J0JBC00000044
C8611
0.1
C8057
1
C8651
0.1
C8652
0.1
C8056
2200P
C8052
0.1
C8053
0.1
EXDT_15
EXDT_7
EXDT_14
EXDT_6
EXDT_13
EXDT_5
EXDT_12
EXDT_4
A16
XBYTE
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
A15
A14
A13
A12
A11
A10
A9
A8
A19
A20
XWE
XRESET
EXADR_16
EXADR_15
EXADR_14
EXADR_13
EXADR_12
EXADR_11
EXADR_10
EXADR_9
EXADR_8
EXADR_19
EXADR_20
MDQ_15
MDQ_14
MDQ_13
MDQ_12
MDQ_11
MDQ_10
MDQ_9
DQ15
VSSQ
DQ14
DQ13
VDDQ
DQ12
DQ11
DQ10
DQ9
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
MDQ_0
MDQ_1
MDQ_2
MDQ_3
MDQ_4
MDQ_5
MDQ_6
14
15
16
17
18
19
20


XOE
XCE
NRST
XWE
CLK
EXDT_5
EXDT_12
EXDT_4
EXDT_11
EXDT_3
EXDT_10
EXDT_2
EXDT_9
EXDT_1
EXDT_8
EXDT_0
IC8651
RFKWMHA0L160
16M FLASH ROM
DQ5
DQ12
DQ4
VDD
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
XOE
VSS
XCE
A0
A19
A20
XWE
XRESET
NC
WP/ACC
RDY/XBSY
A18
A17
A7
A6
A5
A4
A3
A2
A1
EXADR_19
EXADR_20
EXADR_18
EXADR_17
EXADR_7
EXADR_6
EXADR_5
EXADR_4
EXADR_3
EXADR_2
EXADR_1
EXADR_0
RX8017
D1H88204A024
MA_3
MA_4
MA_2
MA_5
a3
a4
a2
a5
RX8016
D1H88204A024
MA_1
MA_6
MA_0
MA_7
a1
a6
a0
a7
RX8015
D1H88204A024
MA_10
MA_8
MA_9
MA_11
a10
a8
a9
a11
NCSM
R8013 22
b1
NWE
R8012 22
b2
RX8020
D1H422020001
BA1
BA0
b3
b4
RX8018
D1H422020001
NRAS
NCAS
b5
b6
RX8019
D1H422020001
DQM1
DQM0
b7
b8
MDQ_10
MDQ_9
MDQ_8
DQM1
MA_11
MA_9
MA_8
MA_7
MA_6
MA_5
MA_4
IC8051
C3ABPG000133
64M SDRAM
VSSQ
DQ10
DQ9
VDDQ
DQ8
VSS
NC
LDQM
CLK
CKE
NC
A11
A9
A8
A7
A6
A5
A4
VSS
VDDQ
DQ5
DQ6
VSSQ
DQ7
VDD
LDQM
/WE
/CAS
/RAS
/CS
BA0
BA1
A10/AP
A0
A1
A2
A3
VDD
MDQ_5
MDQ_6
MDQ_7
DQM0
/WE
/CAS
/RAS
/CS
BA0
BA1
MA_10
MA_0
MA_1
MA_2
MA_3
C8053
0.1
C8054
220P
C8055
1
RX8014
D1H88204A024
MDQ_7
MDQ_8
MDQ_6
MDQ_9
c7
c8
c6
c9
RX8013
D1H88204A024
MDQ_5
MDQ_10
MDQ_4
MDQ_11
c5
c10
c4
c11
RX8012
D1H88204A024
MDQ_3
MDQ_12
MDQ_2
MDQ_13
c3
c12
c2
c13
RX8011
D1H88204A024
MDQ_1
MDQ_14
MDQ_0
MDQ_15
C1
C14
C0
C15

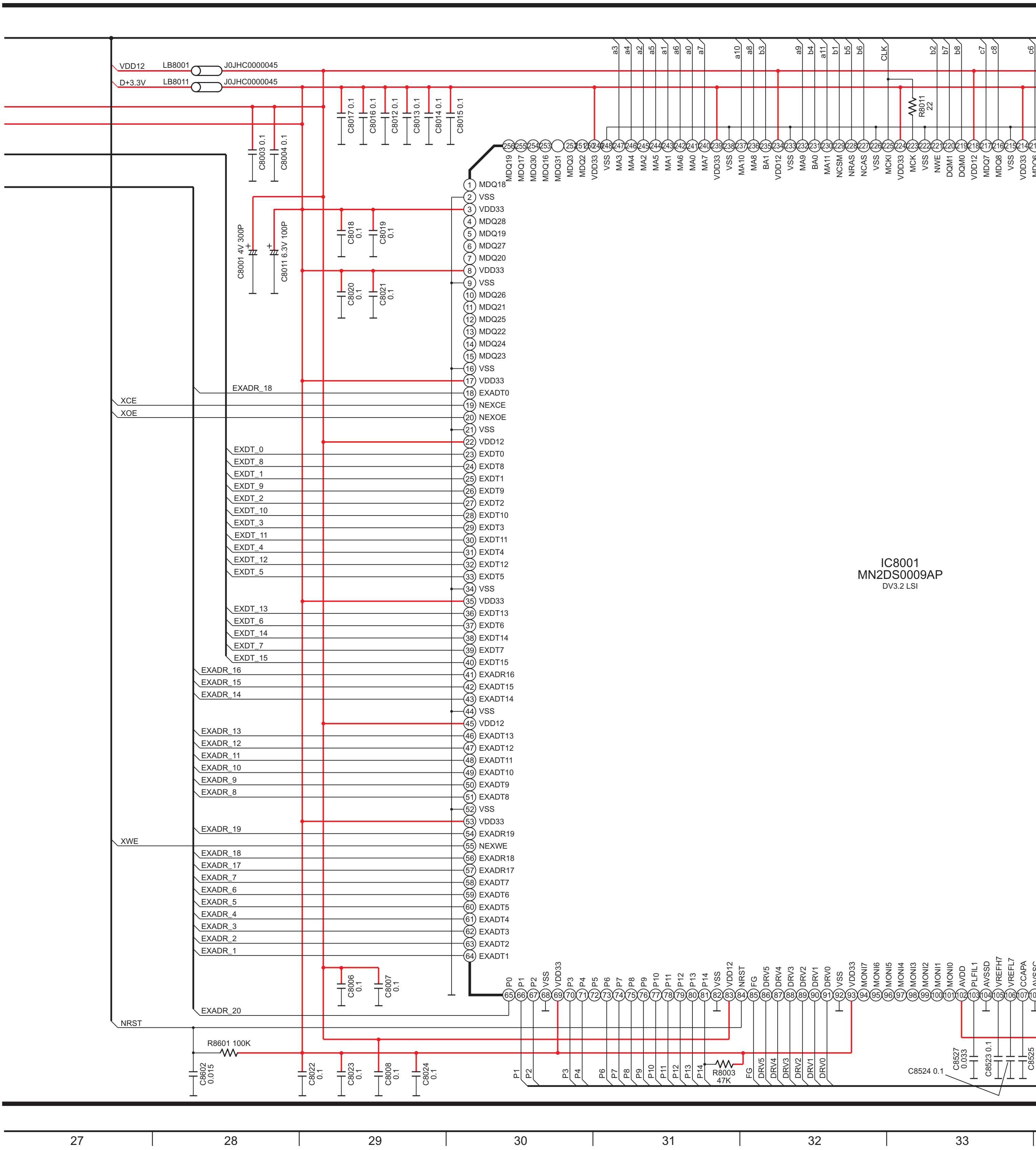
SA-HT940P/PC HDMI MODULE CIRCUIT (D2)

20	21	22	23	24	25	26

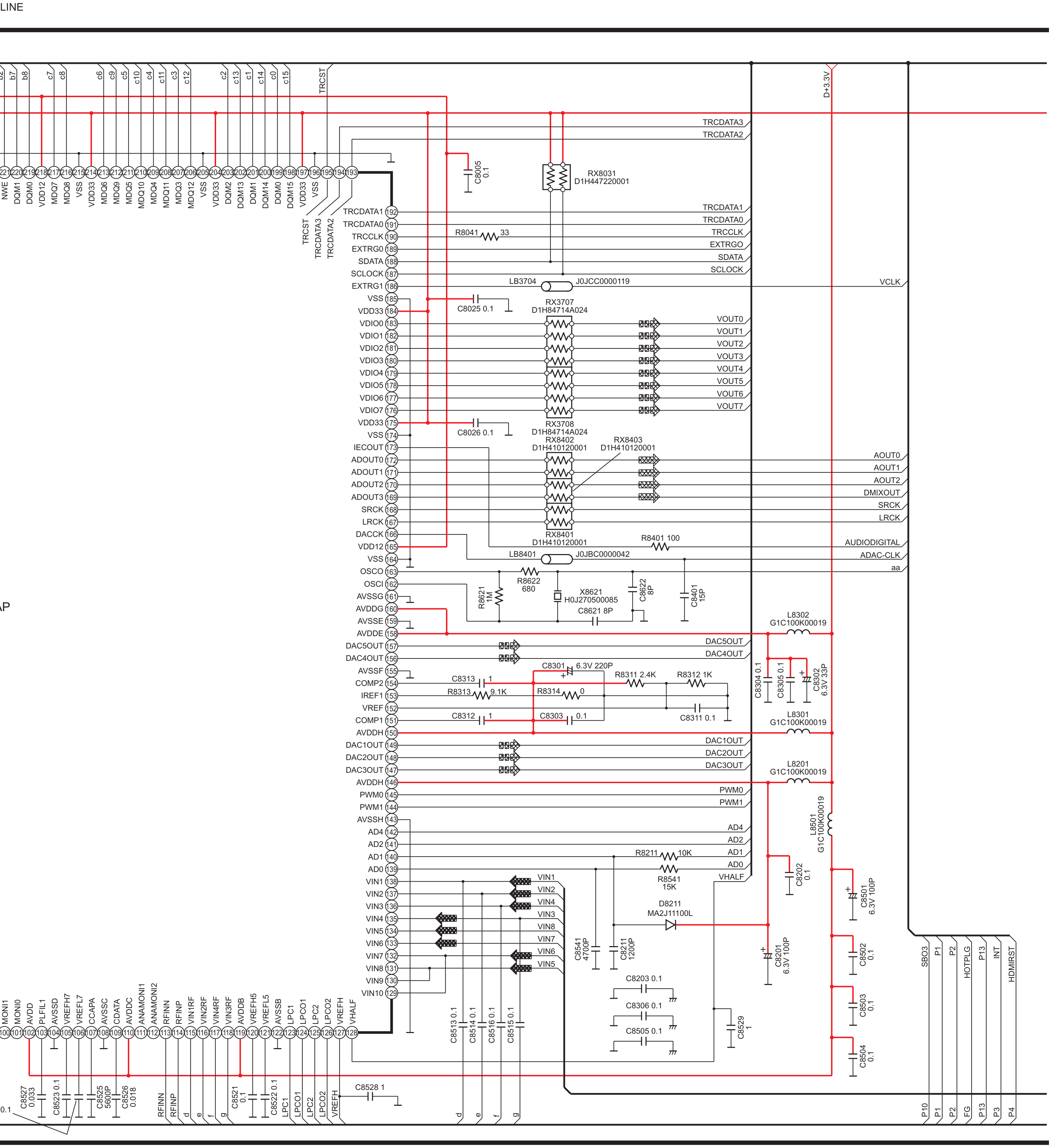
SCHEMATIC DIAGRAM-3

A HDMI MODULE CIRCUIT (D2)

▨ :CD-DA SIGNAL LINE ▨ :DVD(VIDEO) SIGNAL LINE ▨ :DVD(AUDIO) SIGNAL LINE — :+B SIGNAL LINE



VDD12
D+3.3V
LB8001
LB8011
J0JHC0000045
J0JHC0000045
C8003 0.1
C8004 0.1
C8017 0.1
C8016 0.1
C8012 0.1
C8013 0.1
C8014 0.1
C8015 0.1
C8001 4V 300P
C8011 6.3V 100P
C8018 0.1
C8019 0.1
C8020 0.1
C8021 0.1
R8011 22
CLK
a3 a4 a2 a5 a1 a6 a0 a7 a10 a8 b3 a9 b4 a11 b1 b5 b6 b2 b7 b8 c7 c8 c6
MDQ19 MDQ17 MDQ30 MDQ16 MDQ31 MDQ3 MDQ2 VDD33 VSS MA3 MA4 MA2 MA5 MA1 MA6 MA0 MA7 VDD33 VSS MA10 MA8 BA1 VDD12 VSS MA9 BA0 MA11 NCSM NRAS NCAS VSS MCKI VDD33 MCK VSS NWE DQM1 DQM0 VDD12 MDQ7 MDQ8 VSS VDD33
1 MDQ18
2 VSS
3 VDD33
4 MDQ28
5 MDQ19
6 MDQ27
7 MDQ20
8 VDD33
9 VSS
10 MDQ26
11 MDQ21
12 MDQ25
13 MDQ22
14 MDQ24
15 MDQ23
16 VSS
17 VDD33
18 EXADT0
19 NEXCE
20 NEXOE
21 VSS
22 VDD12
23 EXDT0
24 EXDT8
25 EXDT1
26 EXDT9
27 EXDT2
28 EXDT10
29 EXDT3
30 EXDT11
31 EXDT4
32 EXDT12
33 EXDT5
34 VSS
35 VDD33
36 EXDT13
37 EXDT6
38 EXDT14
39 EXDT7
40 EXDT15
41 EXADR16
42 EXADT15
43 EXADT14
44 VSS
45 VDD12
46 EXADT13
47 EXADT12
48 EXADT11
49 EXADT10
50 EXADT9
51 EXADT8
52 VSS
53 VDD33
54 EXADR19
55 NEXWE
56 EXADR18
57 EXADR17
58 EXADT7
59 EXADT6
60 EXADT5
61 EXADT4
62 EXADT3
63 EXADT2
64 EXADT1
EXADR_18
XCE
XOE
EXDT_0
EXDT_8
EXDT_1
EXDT_9
EXDT_2
EXDT_10
EXDT_3
EXDT_11
EXDT_4
EXDT_12
EXDT_5
EXDT_13
EXDT_6
EXDT_14
EXDT_7
EXDT_15
EXADR_16
EXADR_15
EXADR_14
EXADR_13
EXADR_12
EXADR_11
EXADR_10
EXADR_9
EXADR_8
EXADR_19
XWE
EXADR_18
EXADR_17
EXADR_7
EXADR_6
EXADR_5
EXADR_4
EXADR_3
EXADR_2
EXADR_1
EXADR_20
NRST
IC8001
MN2DS0009AP
DV3.2 LSI
P0 P1 P2 VSS VDD33 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 VSS VDD12 NRST FG DRV5 DRV4 DRV3 DRV2 DRV1 DRV0 VSS VDD33 MONI7 MONI6 MONI5 MONI4 MONI3 MONI2 MONI1 MONI0 AVDD PLFIL1 AVSSD VREFH7 VREFL7 CCAPA
C8006 0.1
C8007 0.1
R8601 100K
C8602 0.015
C8022 0.1
C8023 0.1
C8008 0.1
C8024 0.1
P1 P2 P3 P4 P6 P7 P8 P9 P10 P11 P12 P13 P14
R8003 47K
FG DRV5 DRV4 DRV3 DRV2 DRV0
C8527 0.033
C8523 0.1
C8525
C8524 0.1
27
28
29
30
31
32
33

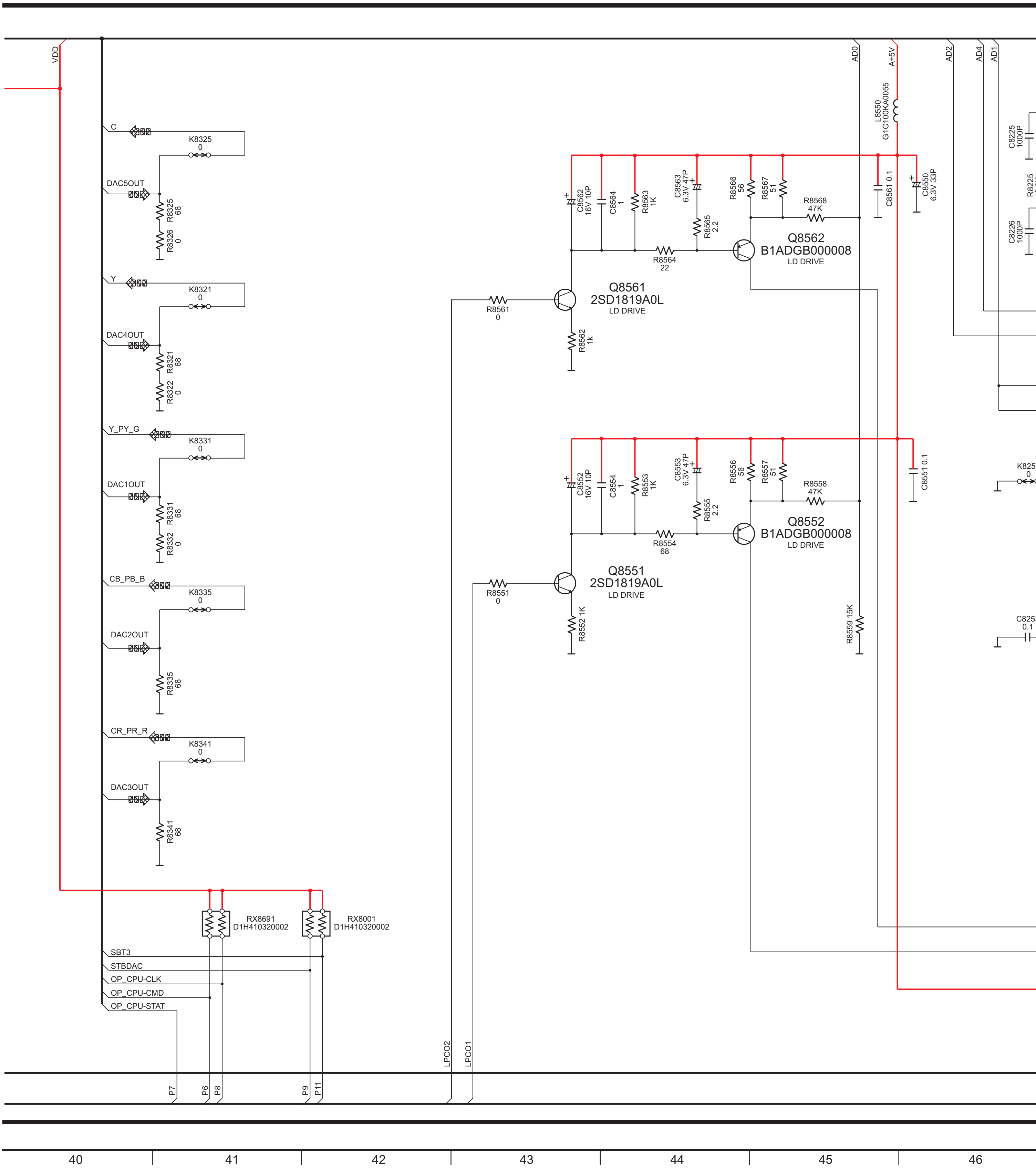

LINE
AP
TRCST
D+3.3V
TRCDATA3
TRCDATA2
TRCDATA1
TRCDATA0
TRCCLK
EXTRGO
SDATA
SCLOCK
VCLK
C8005 0.1
RX8031 D1H447220001
R8041 33
LB3704 J0JCC0000119
C8025 0.1
RX3707 D1H84714A024
VOUT0
VOUT1
VOUT2
VOUT3
VOUT4
VOUT5
VOUT6
VOUT7
C8026 0.1
RX3708 D1H84714A024
RX8402 D1H410120001
RX8403 D1H410120001
AOUT0
AOUT1
AOUT2
DMIXOUT
SRCK
LRCK
RX8401 D1H410120001
R8401 100
AUDIODIGITAL
LB8401 J0JBC0000042
ADAC-CLK
aa
R8622 680
R8621 1M
X8621 H0J270500085
C8621 8P
C8622 8P
C8401 15P
L8302 G1C100K00019
DAC5OUT
DAC4OUT
C8301 6.3V 220P
C8313 1
R8313 9.1K
R8314 0
R8311 2.4K
R8312 1K
C8312 1
C8303 0.1
C8311 0.1
C8304 0.1
C8305 0.1
C8302 6.3V 33P
L8301 G1C100K00019
DAC1OUT
DAC2OUT
DAC3OUT
L8201 G1C100K00019
PWM0
PWM1
L8501 G1C100K00019
AD4
AD2
AD1
AD0
VHALF
R8211 10K
R8541 15K
D8211 MA2J11100L
C8202 0.1
C8501 6.3V 100P
C8201 6.3V 100P
C8502 0.1
C8503 0.1
C8504 0.1
C8541 4700P
C8211 1200P
C8203 0.1
C8306 0.1
C8505 0.1
C8529 1
VIN1
VIN2
VIN4
VIN3
VIN8
VIN7
VIN6
VIN5
C8513 0.1
C8514 0.1
C8516 0.1
C8515 0.1
C8528 1
SBO3
P1
P2
HOTPLG
P13
INT
HDMIRST
P10
P1
P2
FG
P13
P3
P4
TRCDATA1 (192)
TRCDATA0 (191)
TRCCLK (190)
EXTRG0 (189)
SDATA (188)
SCLOCK (187)
EXTRG1 (186)
VSS (185)
VDD33 (184)
VDIO0 (183)
VDIO1 (182)
VDIO2 (181)
VDIO3 (180)
VDIO4 (179)
VDIO5 (178)
VDIO6 (177)
VDIO7 (176)
VDD33 (175)
VSS (174)
IECOUT (173)
ADOUT0 (172)
ADOUT1 (171)
ADOUT2 (170)
ADOUT3 (169)
SRCK (168)
LRCK (167)
DACCK (166)
VDD12 (165)
VSS (164)
OSCO (163)
OSCI (162)
AVSSG (161)
AVDDG (160)
AVSSE (159)
AVDDE (158)
DAC5OUT (157)
DAC4OUT (156)
AVSSF (155)
COMP2 (154)
IREF1 (153)
VREF (152)
COMP1 (151)
AVDDH (150)
DAC1OUT (149)
DAC2OUT (148)
DAC3OUT (147)
AVDDH (146)
PWM0 (145)
PWM1 (144)
AVSSH (143)
AD4 (142)
AD2 (141)
AD1 (140)
AD0 (139)
VIN1 (138)
VIN2 (137)
VIN3 (136)
VIN4 (135)
VIN5 (134)
VIN6 (133)
VIN7 (132)
VIN8 (131)
VIN9 (130)
VIN10 (129)
b2 b7 b8 c7 c8 c6 c9 c5 c10 c4 c11 c3 c12 c2 c13 c1 c14 c0 c15
221 NWE, 220 DQM1, 219 DQM0, 218 VDD12, 217 MDQ7, 216 MDQ8, 215 VSS, 214 VDD33, 213 MDQ6, 212 MDQ9, 211 MDQ5, 210 MDQ10, 209 MDQ4, 208 MDQ11, 207 MDQ3, 206 MDQ12, 205 VSS, 204 VDD33, 203 DQM2, 202 DQM13, 201 DQM1, 200 DQM14, 199 DQM0, 198 DQM15, 197 VDD33, 196 VSS, 195 TRCST, 194 TRCDATA3, 193 TRCDATA2
100 MONI1, 101 MONI0, 102 AVDD, 103 PLFIL1, 104 AVSSD, 105 VREFH7, 106 VREFL7, 107 CCAPA, 108 AVSSC, 109 CDATA, 110 AVDDC, 111 ANAMONI1, 112 ANAMONI2, 113 RFINN, 114 RFINP, 115 VIN1RF, 116 VIN2RF, 117 VIN4RF, 118 VIN3RF, 119 AVDDB, 120 VREFH5, 121 VREFL5, 122 AVSSB, 123 LPC1, 124 LPCO1, 125 LPC2, 126 LPCO2, 127 VREFH, 128 VHALF
0.1
C8527 0.033
C8523 0.1
C8525 5600P
C8526 0.018
RFINN
RFINP
d
e
f
g
C8521 0.1
C8522 0.1
LPC1
LPCO1
LPC2
LPCO2
VREFH
d
e
f
g
33
34
35
36
37
38
39

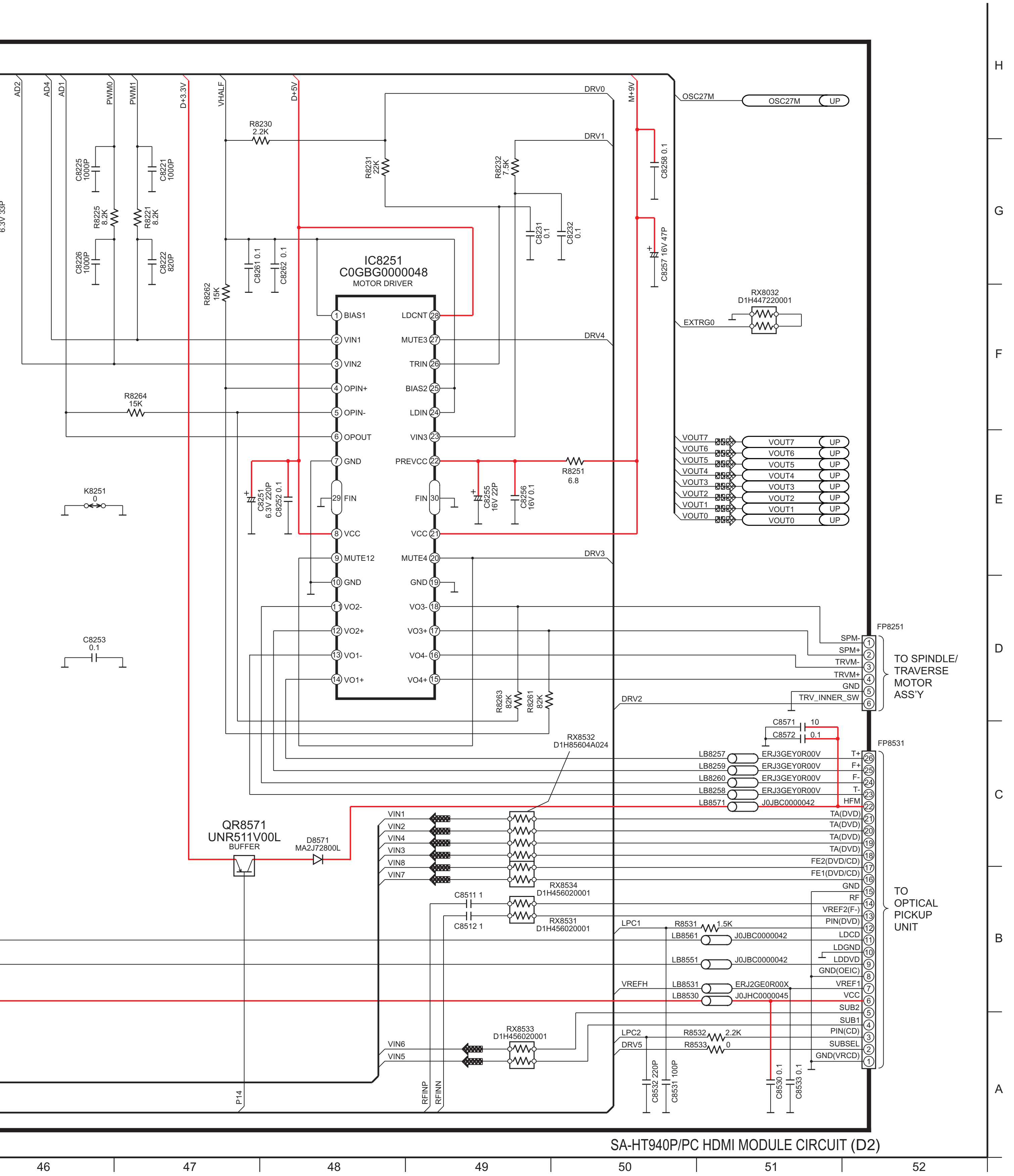
SA-HT940P/PC HDMI MODULE CIRCUIT (D2)

SCHEMATIC DIAGRAM-4

A HDMI MODULE CIRCUIT (D2)

:CD-DA SIGNAL LINE :DVD(VIDEO) SIGNAL LINE :+B SIGNAL LINE


VDD
C
K8325
0
DAC5OUT
R8325
68
R8326
0
Y
K8321
0
DAC4OUT
R8321
68
R8322
0
Y_PY_G
K8331
0
DAC1OUT
R8331
68
R8332
0
CB_PB_B
K8335
0
DAC2OUT
R8335
68
CR_PR_R
K8341
0
DAC3OUT
R8341
68
RX8691
D1H410320002
RX8001
D1H410320002
SBT3
STBDAC
OP_CPU-CLK
OP_CPU-CMD
OP_CPU-STAT
P7
P6
P8
P9
P11
LPCO2
LPCO1
R8561
0
Q8561
2SD1819A0L
LD DRIVE
R8562
1k
C8562
16V 10P
C8564
1
R8563
1K
C8563
6.3V 47P
R8565
2.2
R8564
22
R8566
56
R8567
51
R8568
47K
Q8562
B1ADGB000008
LD DRIVE
C8561 0.1
C8550
6.3V 33P
L8550
G1C100KA0055
AD0
A+5V
AD2
AD4
AD1
C8225
1000P
R8225
C8226
1000P
R8551
0
Q8551
2SD1819A0L
LD DRIVE
R8552 1K
C8552
16V 10P
C8554
1
R8553
1K
C8553
6.3V 47P
R8555
2.2
R8554
68
R8556
56
R8557
51
R8558
47K
Q8552
B1ADGB000008
LD DRIVE
C8551 0.1
R8559 15K
K825
0
C825
0.1
40
41
42
43
44
45
46

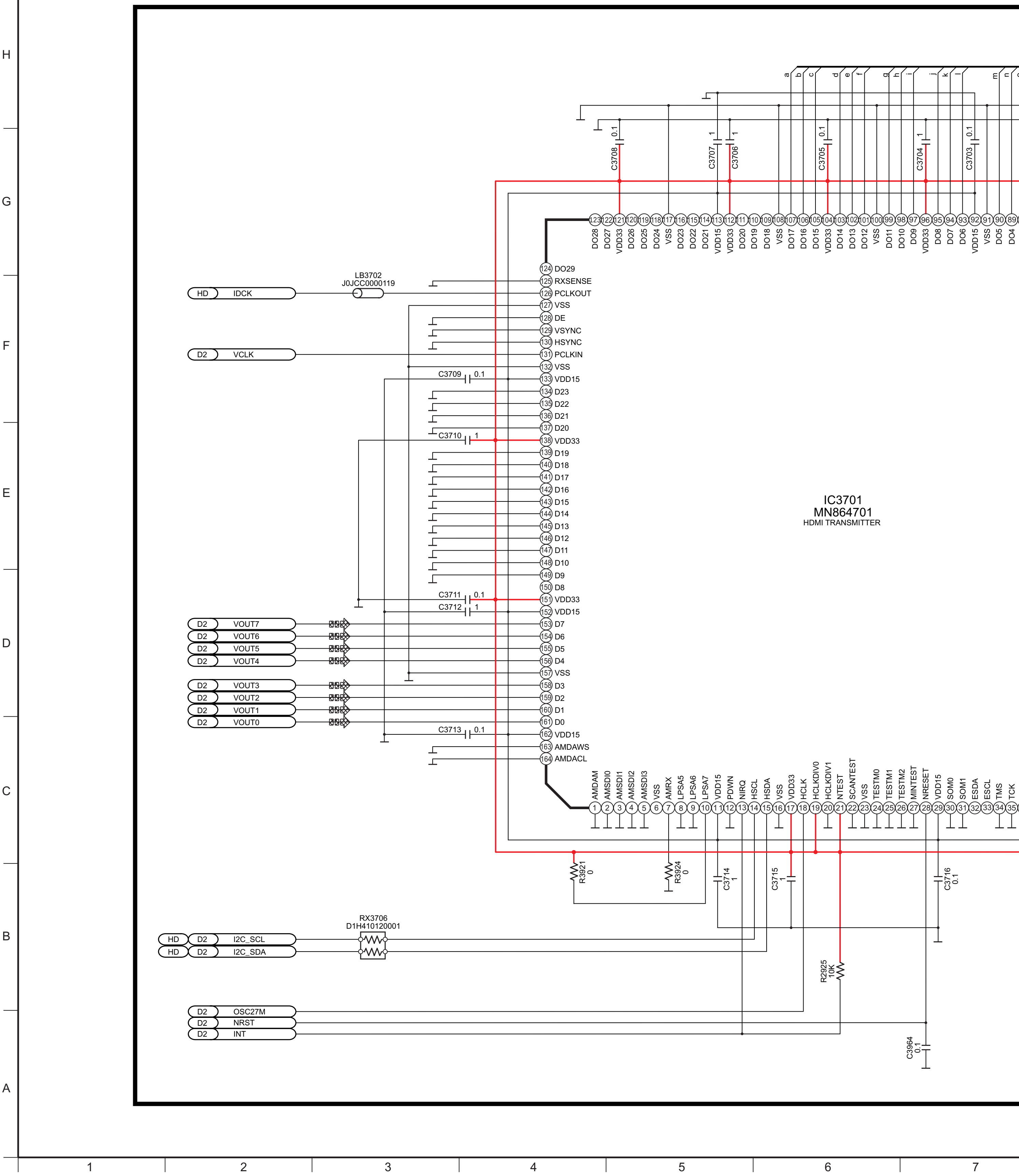

AD2
AD4
AD1
PWM0
PWM1
D+3.3V
VHALF
D+5V
M+9V
6.3V 33P
DRV0
DRV1
DRV4
DRV3
DRV2
OSC27M
UP
R8230 2.2K
C8225 1000P
C8221 1000P
R8225 8.2K
R8221 8.2K
C8226 1000P
C8222 820P
R8231 22K
R8232 7.5K
C8231 0.1
C8232 0.1
C8258 0.1
C8257 16V 47P
C8261 0.1
C8262 0.1
R8262 15K
IC8251
C0GBG0000048
MOTOR DRIVER
BIAS1
VIN1
VIN2
OPIN+
OPIN-
OPOUT
GND
FIN
VCC
MUTE12
VO2-
VO2+
VO1-
VO1+
LDCNT
MUTE3
TRIN
BIAS2
LDIN
VIN3
PREVCC
MUTE4
VO3-
VO3+
VO4-
VO4+
RX8032
D1H447220001
EXTRG0
R8264 15K
K8251 0
C8251 6.3V 220P
C8252 0.1
C8255 16V 22P
C8256 16V 0.1
R8251 6.8
VOUT7
VOUT6
VOUT5
VOUT4
VOUT3
VOUT2
VOUT1
VOUT0
C8253 0.1
R8263 82K
R8261 82K
FP8251
SPM-
SPM+
TRVM-
TRVM+
TRV_INNER_SW
TO SPINDLE/ TRAVERSE MOTOR ASS'Y
C8571 10
C8572 0.1
RX8532
D1H85604A024
FP8531
LB8257
LB8259
LB8260
LB8258
LB8571
ERJ3GEY0R00V
J0JBC0000042
T+
F+
F-
T-
HFM
TA(DVD)
FE2(DVD/CD)
FE1(DVD/CD)
RF
VREF2(F-)
PIN(DVD)
LDCD
LDGND
LDDVD
GND(OEIC)
VREF1
SUB2
SUB1
PIN(CD)
SUBSEL
GND(VRCD)
TO OPTICAL PICKUP UNIT
VIN1
VIN2
VIN4
VIN3
VIN8
VIN7
VIN6
VIN5
QR8571
UNR511V00L
BUFFER
D8571
MA2J72800L
RX8534
D1H456020001
C8511 1
C8512 1
RX8531
D1H456020001
LPC1
R8531 1.5K
LB8561
LB8551
VREFH
LB8531
LB8530
ERJ2GE0R00X
J0JHC0000045
RX8533
D1H456020001
LPC2
DRV5
R8532 2.2K
R8533 0
C8532 220P
C8531 100P
C8530 0.1
C8533 0.1
P14
RFINP
RFINN
H
G
F
E
D
C
B
A
46
47
48
49
50
51
52

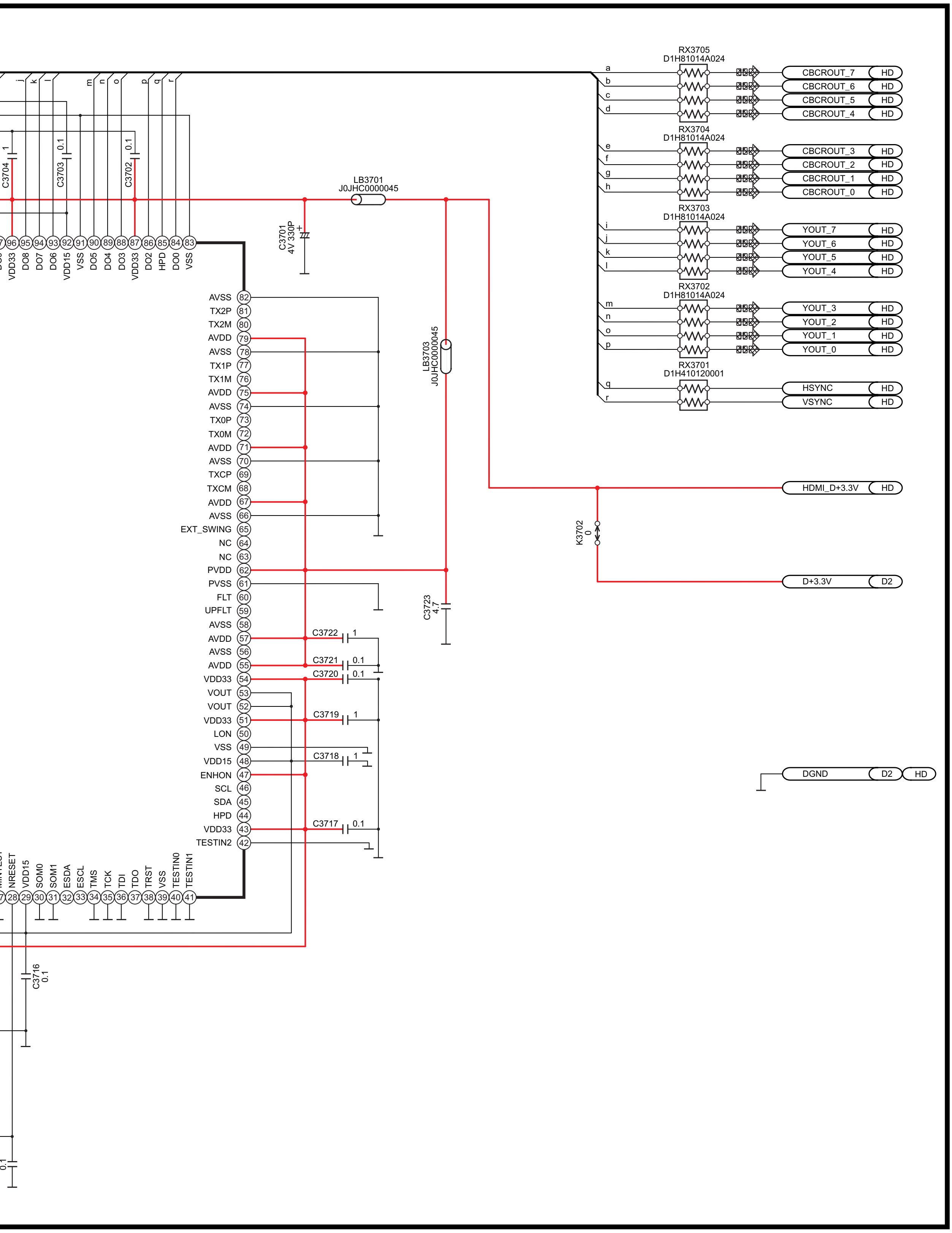
SA-HT940P/PC HDMI MODULE CIRCUIT (D2)

SCHEMATIC DIAGRAM-5

A HDMI MODULE CIRCUIT (UP)

⇨ :DVD(VIDEO) SIGNAL LINE — :+B SIGNAL LINE


H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
IC3701
MN864701
HDMI TRANSMITTER
LB3702
J0JCC0000119
RX3706
D1H410120001
C3708 0.1
C3707 1
C3706 1
C3705 0.1
C3704 1
C3703 0.1
C3709 0.1
C3710 1
C3711 0.1
C3712 1
C3713 0.1
C3714 1
C3715 1
C3716 0.1
C3964 0.1
R3921 0
R3924 0
R2925 10K
HD IDCK
D2 VCLK
D2 VOUT7
D2 VOUT6
D2 VOUT5
D2 VOUT4
D2 VOUT3
D2 VOUT2
D2 VOUT1
D2 VOUT0
HD D2 I2C_SCL
HD D2 I2C_SDA
D2 OSC27M
D2 NRST
D2 INT
a b c d e f g h i j k l m n
123 DO28
122 DO27
121 VDD33
120 DO26
119 DO25
118 DO24
117 VSS
116 DO23
115 DO22
114 DO21
113 VDD15
112 VDD33
111 DO20
110 DO19
109 DO18
108 VSS
107 DO17
106 DO16
105 DO15
104 VDD33
103 DO14
102 DO13
101 DO12
100 VSS
99 DO11
98 DO10
97 DO9
96 VDD33
95 DO8
94 DO7
93 DO6
92 VDD15
91 VSS
90 DO5
89 DO4
124 DO29
125 RXSENSE
126 PCLKOUT
127 VSS
128 DE
129 VSYNC
130 HSYNC
131 PCLKIN
132 VSS
133 VDD15
134 D23
135 D22
136 D21
137 D20
138 VDD33
139 D19
140 D18
141 D17
142 D16
143 D15
144 D14
145 D13
146 D12
147 D11
148 D10
149 D9
150 D8
151 VDD33
152 VDD15
153 D7
154 D6
155 D5
156 D4
157 VSS
158 D3
159 D2
160 D1
161 D0
162 VDD15
163 AMDAWS
164 AMDACL
1 AMDAM
2 AMSDI0
3 AMSDI1
4 AMSDI2
5 AMSDI3
6 VSS
7 AMRX
8 LPSA5
9 LPSA6
10 LPSA7
11 VDD15
12 PDWN
13 NIRQ
14 HSCL
15 HSDA
16 VSS
17 VDD33
18 HCLK
19 HCLKDIV0
20 HCLKDIV1
21 NTEST
22 SCANTEST
23 VSS
24 TESTM0
25 TESTM1
26 TESTM2
27 MINTEST
28 NRESET
29 VDD15
30 SOM0
31 SOM1
32 ESDA
33 ESCL
34 TMS
35 TCK

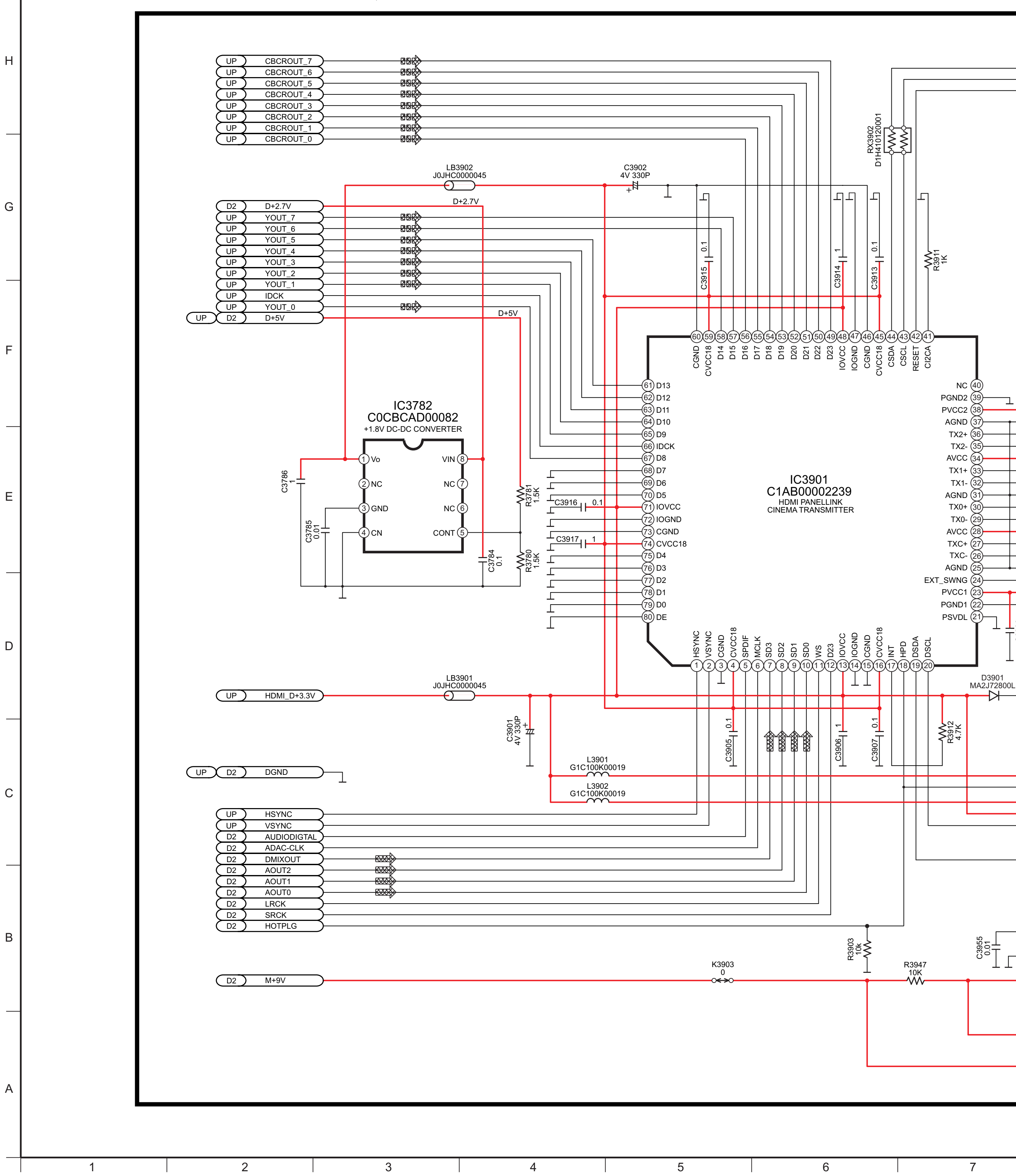

RX3705
D1H81014A024
CBCROUT_7
CBCROUT_6
CBCROUT_5
CBCROUT_4
RX3704
D1H81014A024
CBCROUT_3
CBCROUT_2
CBCROUT_1
CBCROUT_0
RX3703
D1H81014A024
YOUT_7
YOUT_6
YOUT_5
YOUT_4
RX3702
D1H81014A024
YOUT_3
YOUT_2
YOUT_1
YOUT_0
RX3701
D1H410120001
HSYNC
VSYNC
HD
HDMI_D+3.3V
D+3.3V
D2
DGND
K3702
0
LB3701
J0JHC0000045
LB3703
J0JHC0000045
C3701
4V 330P
C3723
4.7
C3704
1
C3703
0.1
C3702
0.1
C3722
C3721
C3720
C3719
C3718
C3717
C3716
0.1
AVSS 82
TX2P 81
TX2M 80
AVDD 79
AVSS 78
TX1P 77
TX1M 76
AVDD 75
AVSS 74
TX0P 73
TX0M 72
AVDD 71
AVSS 70
TXCP 69
TXCM 68
AVDD 67
AVSS 66
EXT_SWING 65
NC 64
NC 63
PVDD 62
PVSS 61
FLT 60
UPFLT 59
AVSS 58
AVDD 57
AVSS 56
AVDD 55
VDD33 54
VOUT 53
VOUT 52
VDD33 51
LON 50
VSS 49
VDD15 48
ENHON 47
SCL 46
SDA 45
HPD 44
VDD33 43
TESTIN2 42
VDD33 96
DO8 95
DO7 94
DO6 93
VDD15 92
VSS 91
DO5 90
DO4 89
DO3 88
VDD33 87
DO2 86
HPD 85
DO0 84
VSS 83
NRESET 28
VDD15 29
SOM0 30
SOM1 31
ESDA 32
ESCL 33
TMS 34
TCK 35
TDI 36
TDO 37
TRST 38
VSS 39
TESTIN0 40
TESTIN1 41

SA-HT940P/PC HDMI MODULE CIRCUIT (UP)

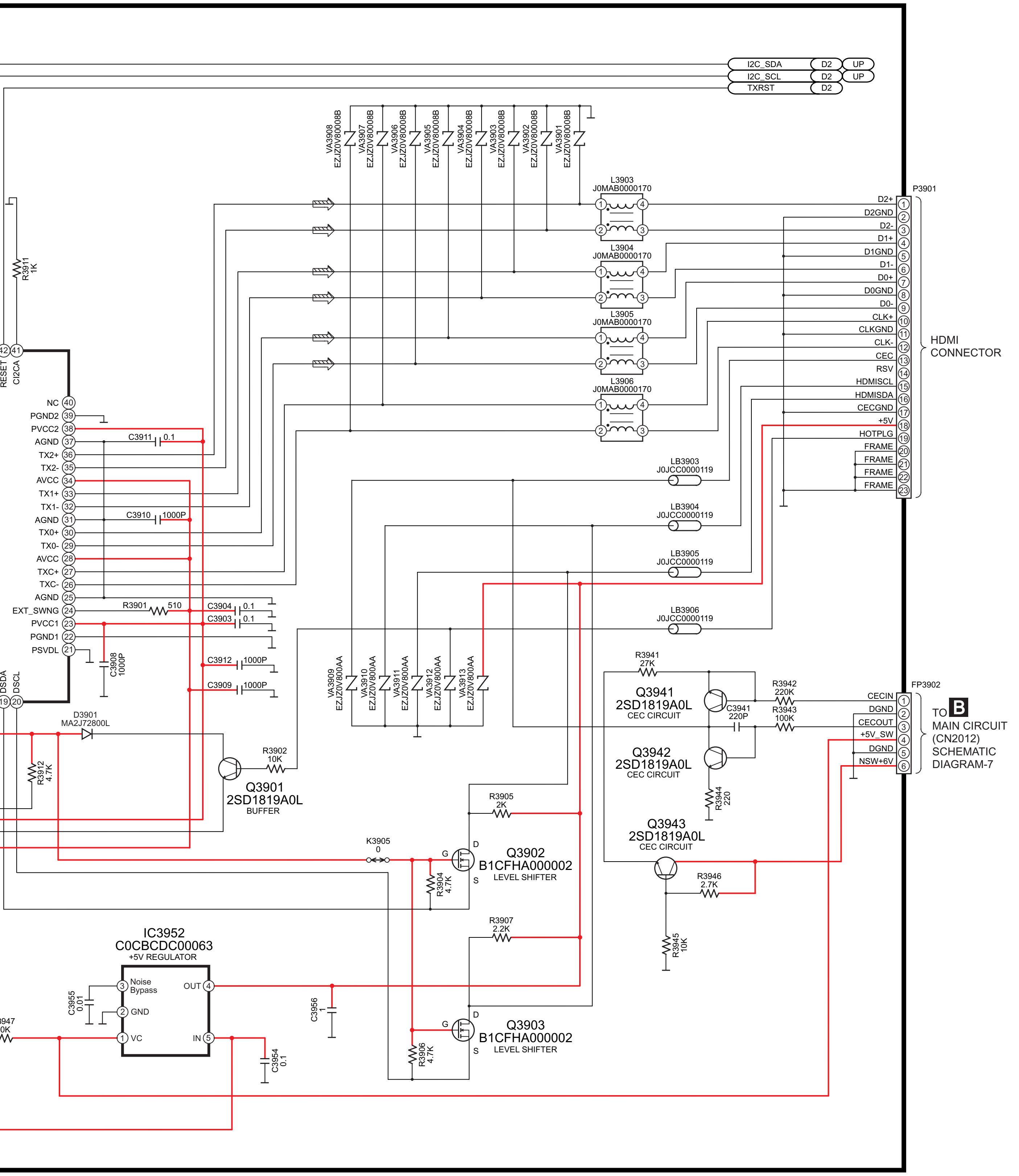
SCHEMATIC DIAGRAM-6

A HDMI MODULE CIRCUIT (HD)

▨ :DVD(VIDEO) SIGNAL LINE ▨ :DVD(AUDIO) SIGNAL LINE ⇨ :MAIN SIGNAL LINE — :+B SIGNAL LINE


H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
UP CBCROUT_7
UP CBCROUT_6
UP CBCROUT_5
UP CBCROUT_4
UP CBCROUT_3
UP CBCROUT_2
UP CBCROUT_1
UP CBCROUT_0
LB3902 J0JHC0000045
C3902 4V 330P
RX3902 D1H410120001
D2 D+2.7V
D+2.7V
UP YOUT_7
UP YOUT_6
UP YOUT_5
UP YOUT_4
UP YOUT_3
UP YOUT_2
UP YOUT_1
UP IDCK
UP YOUT_0
UP D2 D+5V
D+5V
C3915 0.1
C3914 1
C3913 0.1
R3911 1K
CGND CVCC18 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 IOVCC IOGND CGND CVCC18 CSDA CSCL RESET CI2CA
IC3782
C0CBCAD00082
+1.8V DC-DC CONVERTER
1 Vo
2 NC
3 GND
4 CN
VIN 8
NC 7
NC 6
CONT 5
C3786 1
C3785 0.01
C3784 0.1
R3781 1.5K
R3780 1.5K
C3916 0.1
C3917 1
61 D13
62 D12
63 D11
64 D10
65 D9
66 IDCK
67 D8
68 D7
69 D6
70 D5
71 IOVCC
72 IOGND
73 CGND
74 CVCC18
75 D4
76 D3
77 D2
78 D1
79 D0
80 DE
IC3901
C1AB00002239
HDMI PANELLINK
CINEMA TRANSMITTER
NC 40
PGND2 39
PVCC2 38
AGND 37
TX2+ 36
TX2- 35
AVCC 34
TX1+ 33
TX1- 32
AGND 31
TX0+ 30
TX0- 29
AVCC 28
TXC+ 27
TXC- 26
AGND 25
EXT_SWNG 24
PVCC1 23
PGND1 22
PSVDL 21
HSYNC VSYNC CGND CVCC18 SPDIF MCLK SD3 SD2 SD1 SD0 WS D23 IOVCC IOGND CGND CVCC18 INT HPD DSDA DSCL
LB3901 J0JHC0000045
UP HDMI_D+3.3V
D3901 MA2J72800L
C3901 4V 330P
C3905 0.1
C3906 1
C3907 0.1
R3912 4.7K
UP D2 DGND
L3901 G1C100K00019
L3902 G1C100K00019
UP HSYNC
UP VSYNC
D2 AUDIODIGTAL
D2 ADAC-CLK
D2 DMIXOUT
D2 AOUT2
D2 AOUT1
D2 AOUT0
D2 LRCK
D2 SRCK
D2 HOTPLG
R3903 10k
C3955 0.01
K3903 0
R3947 10K
D2 M+9V

NAL LINE


I2C_SDA
I2C_SCL
TXRST
D2
UP
VA3908 EZJZ0V80008B
VA3907 EZJZ0V80008B
VA3906 EZJZ0V80008B
VA3905 EZJZ0V80008B
VA3904 EZJZ0V80008B
VA3903 EZJZ0V80008B
VA3902 EZJZ0V80008B
VA3901 EZJZ0V80008B
L3903 J0MAB0000170
L3904 J0MAB0000170
L3905 J0MAB0000170
L3906 J0MAB0000170
P3901
D2+
D2GND
D2-
D1+
D1GND
D1-
D0+
D0GND
D0-
CLK+
CLKGND
CLK-
CEC
RSV
HDMISCL
HDMISDA
CECGND
+5V
HOTPLG
FRAME
HDMI CONNECTOR
R3911 1K
RESET
CI2CA
NC
PGND2
PVCC2
AGND
TX2+
TX2-
AVCC
TX1+
TX1-
TX0+
TX0-
TXC+
TXC-
EXT_SWNG
PVCC1
PGND1
PSVDL
DSDA
DSCL
C3911 0.1
C3910 1000P
R3901 510
C3904 0.1
C3903 0.1
C3908 1000P
C3912 1000P
C3909 1000P
LB3903 J0JCC0000119
LB3904 J0JCC0000119
LB3905 J0JCC0000119
LB3906 J0JCC0000119
VA3909 EZJZ0V800AA
VA3910 EZJZ0V800AA
VA3911 EZJZ0V800AA
VA3912 EZJZ0V800AA
VA3913 EZJZ0V800AA
R3941 27K
Q3941 2SD1819A0L CEC CIRCUIT
C3941 220P
R3942 220K
R3943 100K
Q3942 2SD1819A0L CEC CIRCUIT
R3944 220
Q3943 2SD1819A0L CEC CIRCUIT
R3946 2.7K
R3945 10K
FP3902
CECIN
DGND
CECOUT
+5V_SW
NSW+6V
TO B MAIN CIRCUIT (CN2012) SCHEMATIC DIAGRAM-7
D3901 MA2J72800L
R3912 4.7K
R3902 10K
Q3901 2SD1819A0L BUFFER
R3905 2K
K3905 0
Q3902 B1CFHA000002 LEVEL SHIFTER
R3904 4.7K
G
D
S
R3907 2.2K
IC3952 C0CBCDC00063 +5V REGULATOR
Noise Bypass
GND
VC
OUT
IN
C3955 0.01
C3956 1
C3954 0.1
3947 0K
Q3903 B1CFHA000002 LEVEL SHIFTER
R3906 4.7K

SA-HT940P/PC HDMI MODULE CIRCUIT

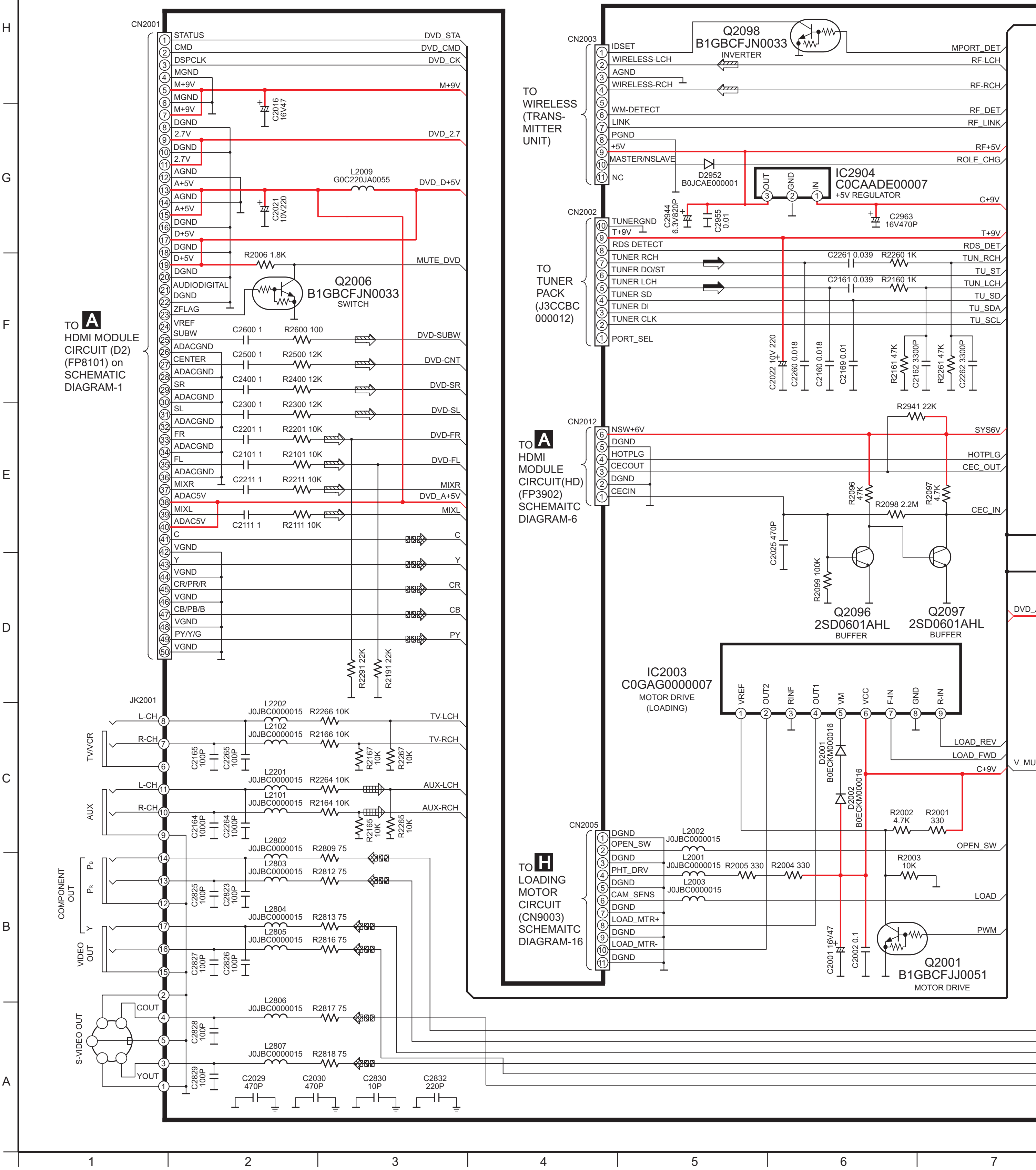
7 8 9 10 11 12 13

19.2. (B) Main Circuit

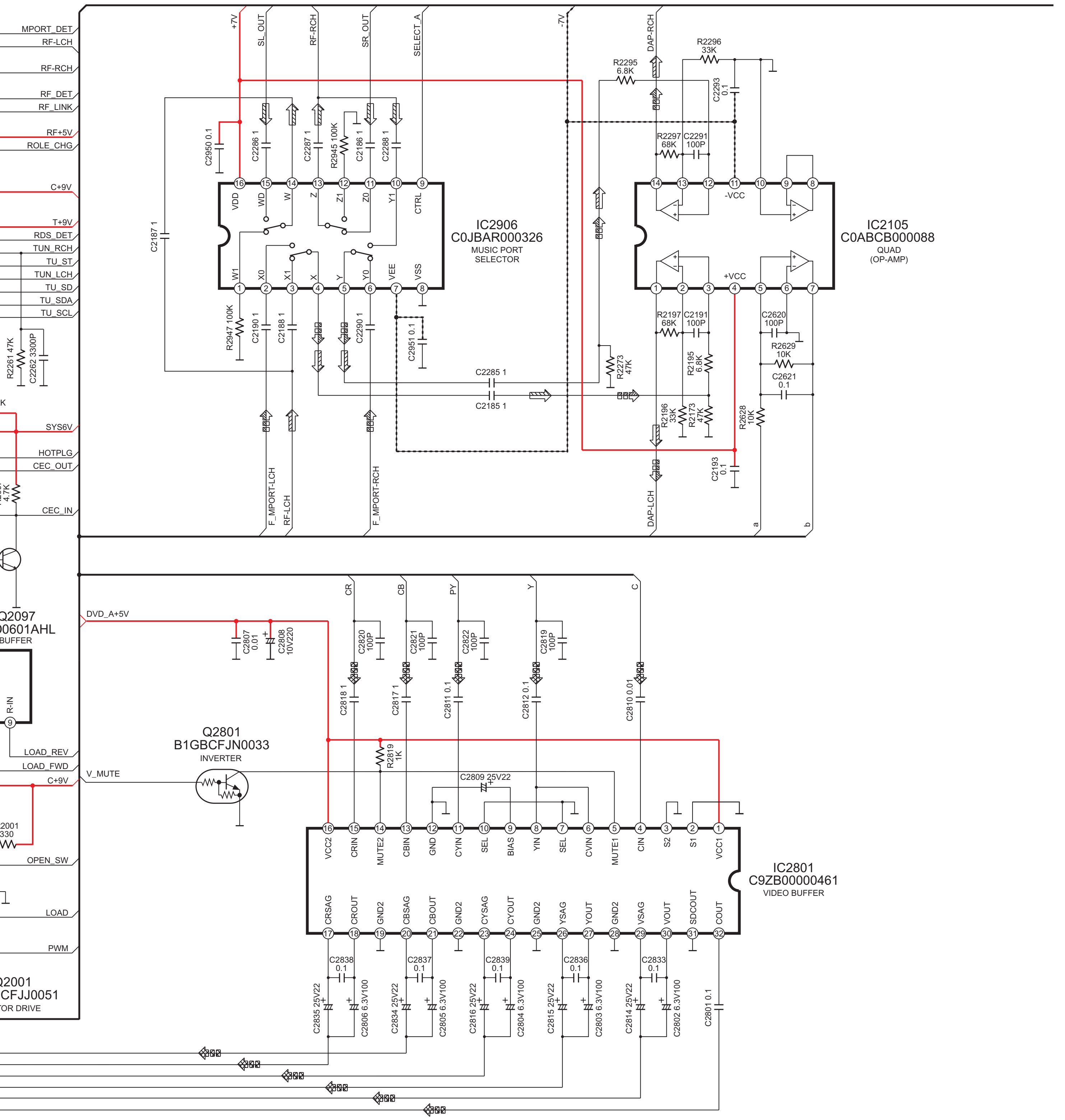
SCHEMATIC DIAGRAM-7

B MAIN CIRCUIT

:MAIN SIGNAL LINE :MUSIC PORT SIGNAL LINE :FM/AM SIGNAL LINE :DVD(VIDEO) SIGNAL LINE :AUX SIGNAL LI


H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
CN2001
STATUS
CMD
DSPCLK
MGND
M+9V
MGND
M+9V
DGND
2.7V
DGND
2.7V
AGND
A+5V
AGND
A+5V
DGND
D+5V
DGND
D+5V
DGND
AUDIODIGITAL
DGND
ZFLAG
VREF
SUBW
ADACGND
CENTER
ADACGND
SR
ADACGND
SL
ADACGND
FR
ADACGND
FL
ADACGND
MIXR
ADAC5V
MIXL
ADAC5V
C
VGND
Y
VGND
CR/PR/R
VGND
CB/PB/B
VGND
PY/Y/G
VGND
DVD_STA
DVD_CMD
DVD_CK
M+9V
C2016 16V47
DVD_2.7
L2009 G0C220JA0055
DVD_D+5V
C2021 10V220
R2006 1.8K
MUTE_DVD
Q2006 B1GBCFJN0033 SWITCH
C2600 1
R2600 100
DVD-SUBW
C2500 1
R2500 12K
DVD-CNT
C2400 1
R2400 12K
DVD-SR
C2300 1
R2300 12K
DVD-SL
C2201 1
R2201 10K
DVD-FR
C2101 1
R2101 10K
DVD-FL
C2211 1
R2211 10K
MIXR
DVD_A+5V
C2111 1
R2111 10K
MIXL
C
Y
CR
CB
PY
R2291 22K
R2191 22K
TO A HDMI MODULE CIRCUIT (D2) (FP8101) on SCHEMATIC DIAGRAM-1
JK2001
TV/VCR
L-CH
R-CH
L2202 J0JBC0000015
R2266 10K
L2102 J0JBC0000015
R2166 10K
TV-LCH
TV-RCH
C2165 100P
C2265 100P
R2167 10K
R2267 10K
AUX
L-CH
R-CH
L2201 J0JBC0000015
R2264 10K
L2101 J0JBC0000015
R2164 10K
AUX-LCH
AUX-RCH
C2164 1000P
C2264 1000P
R2165 10K
R2265 10K
COMPONENT OUT
PB
PR
Y
L2802 J0JBC0000015
R2809 75
L2803 J0JBC0000015
R2812 75
C2825 100P
C2823 100P
VIDEO OUT
L2804 J0JBC0000015
R2813 75
L2805 J0JBC0000015
R2816 75
C2827 100P
C2826 100P
S-VIDEO OUT
COUT
YOUT
L2806 J0JBC0000015
R2817 75
C2828 100P
L2807 J0JBC0000015
R2818 75
C2829 100P
C2029 470P
C2030 470P
C2830 10P
C2832 220P
CN2003
TO WIRELESS (TRANS-MITTER UNIT)
IDSET
WIRELESS-LCH
AGND
WIRELESS-RCH
WM-DETECT
LINK
PGND
+5V
MASTER/NSLAVE
NC
Q2098 B1GBCFJN0033 INVERTER
MPORT_DET
RF-LCH
RF-RCH
RF_DET
RF_LINK
RF+5V
ROLE_CHG
D2952 B0JCAE000001
IC2904 C0CAADE00007 +5V REGULATOR
OUT
GND
IN
C+9V
C2944 6.3V820P
C2955 0.01
C2963 16V470P
CN2002
TO TUNER PACK (J3CCBC 000012)
TUNERGND
T+9V
RDS DETECT
TUNER RCH
TUNER DO/ST
TUNER LCH
TUNER SD
TUNER DI
TUNER CLK
PORT_SEL
T+9V
RDS_DET
C2261 0.039
R2260 1K
TUN_RCH
TU_ST
C2161 0.039
R2160 1K
TUN_LCH
TU_SD
TU_SDA
TU_SCL
C2022 10V 220
C2260 0.018
C2160 0.018
C2169 0.01
R2161 47K
C2162 3300P
R2261 47K
C2262 3300P
CN2012
TO A HDMI MODULE CIRCUIT(HD) (FP3902) SCHEMAITC DIAGRAM-6
NSW+6V
DGND
HOTPLG
CECOUT
DGND
CECIN
R2941 22K
SYS6V
HOTPLG
CEC_OUT
R2096 47K
R2097 4.7K
R2098 2.2M
CEC_IN
C2025 470P
R2099 100K
Q2096 2SD0601AHL BUFFER
Q2097 2SD0601AHL BUFFER
DVD_
IC2003 C0GAG0000007 MOTOR DRIVE (LOADING)
VREF
OUT2
RINF
OUT1
VM
VCC
F-IN
GND
R-IN
LOAD_REV
LOAD_FWD
V_MU
C+9V
D2001 B0ECKM000016
D2002 B0ECKM000016
R2002 4.7K
R2001 330
CN2005
TO H LOADING MOTOR CIRCUIT (CN9003) SCHEMAITC DIAGRAM-16
DGND
OPEN_SW
DGND
PHT_DRV
DGND
CAM_SENS
DGND
LOAD_MTR+
DGND
LOAD_MTR-
DGND
L2002 J0JBC0000015
L2001 J0JBC0000015
R2005 330
R2004 330
L2003 J0JBC0000015
OPEN_SW
R2003 10K
LOAD
PWM
C2001 16V47
C2002 0.1
Q2001 B1GBCFJJ0051 MOTOR DRIVE

:AUX SIGNAL LINE :+B SIGNAL LINE :-B SIGNAL LINE


MPORT_DET
RF-LCH
RF-RCH
RF_DET
RF_LINK
RF+5V
ROLE_CHG
C+9V
T+9V
RDS_DET
TUN_RCH
TU_ST
TUN_LCH
TU_SD
TU_SDA
TU_SCL
R2261 47K
C2262 3300P
SYS6V
HOTPLG
CEC_OUT
CEC_IN
+7V
SL_OUT
RF-RCH
SR_OUT
SELECT_A
-7V
DAP-RCH
R2295 6.8K
R2296 33K
C2293 0.1
C2950 0.1
C2286 1
C2287 1
R2945 100K
C2186 1
C2288 1
C2187 1
R2297 68K
C2291 100P
VDD
WD
W
Z
Z1
Z0
Y1
CTRL
W1
X0
X1
X
Y
Y0
VEE
VSS
IC2906
C0JBAR000326
MUSIC PORT SELECTOR
IC2105
C0ABCB000088
QUAD (OP-AMP)
-VCC
+VCC
R2947 100K
C2190 1
C2188 1
C2290 1
C2951 0.1
C2285 1
C2185 1
R2273 47K
R2197 68K
C2191 100P
R2195 6.8K
R2196 33K
R2173 47K
C2620 100P
R2629 10K
C2621 0.1
R2628 10K
C2193 0.1
F_MPORT-LCH
RF-LCH
F_MPORT-RCH
DAP-LCH
a
b
Q2097
0601AHL
BUFFER
R-IN
LOAD_REV
LOAD_FWD
C+9V
2001
330
OPEN_SW
LOAD
PWM
Q2001
CFJJ0051
OR DRIVE
DVD_A+5V
C2807 0.01
C2808 10V220
CR
CB
PY
Y
C
C2820 100P
C2821 100P
C2822 100P
C2819 100P
C2818 1
C2817 1
C2811 0.1
C2812 0.1
C2810 0.01
Q2801
B1GBCFJN0033
INVERTER
V_MUTE
R2819 1K
C2809 25V22
VCC2
CRIN
MUTE2
CBIN
GND
CYIN
SEL
BIAS
YIN
SEL
CVIN
MUTE1
CIN
S2
S1
VCC1
CRSAG
CROUT
GND2
CBSAG
CBOUT
GND2
CYSAG
CYOUT
GND2
YSAG
YOUT
GND2
VSAG
VOUT
SDCOUT
COUT
IC2801
C9ZB00000461
VIDEO BUFFER
C2838 0.1
C2837 0.1
C2839 0.1
C2836 0.1
C2833 0.1
C2835 25V22
C2806 6.3V100
C2834 25V22
C2805 6.3V100
C2816 25V22
C2804 6.3V100
C2815 25V22
C2803 6.3V100
C2814 25V22
C2802 6.3V100
C2801 0.1

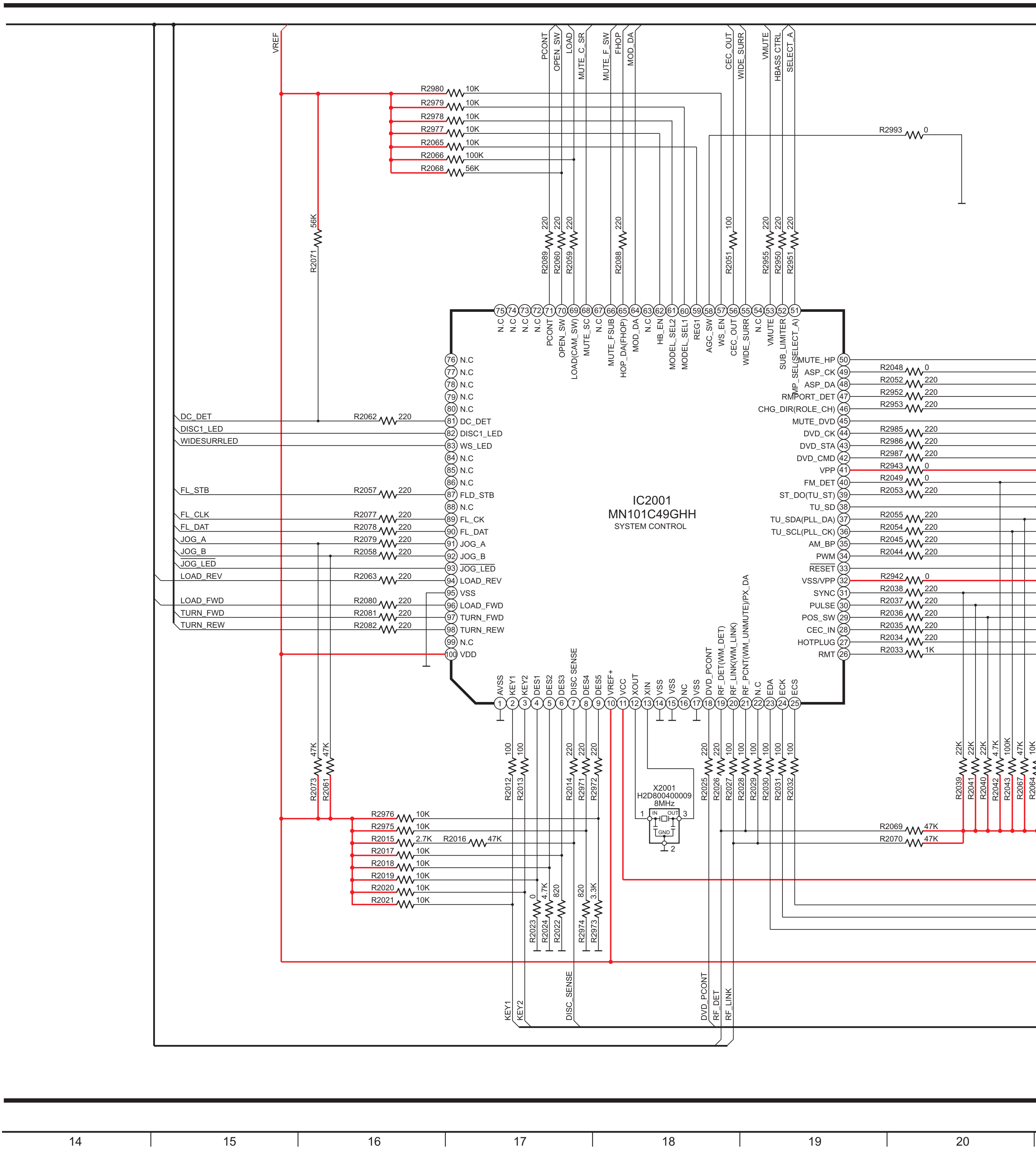
SA-HT940P/PC MAIN CIRCUIT

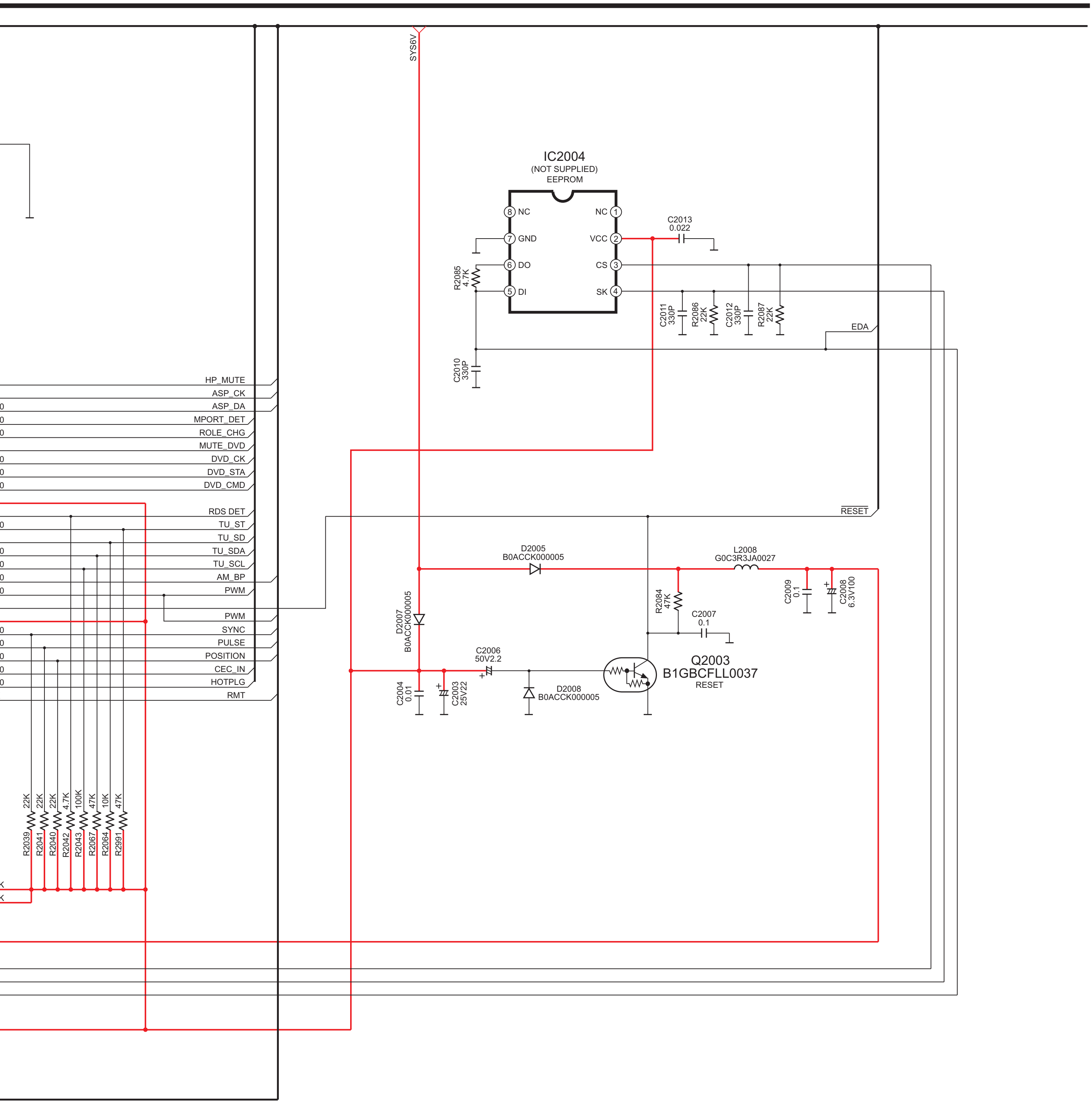
7	8	9	10	11	12	13

SCHEMATIC DIAGRAM-8

B MAIN CIRCUIT

:+B SIGNAL LINE

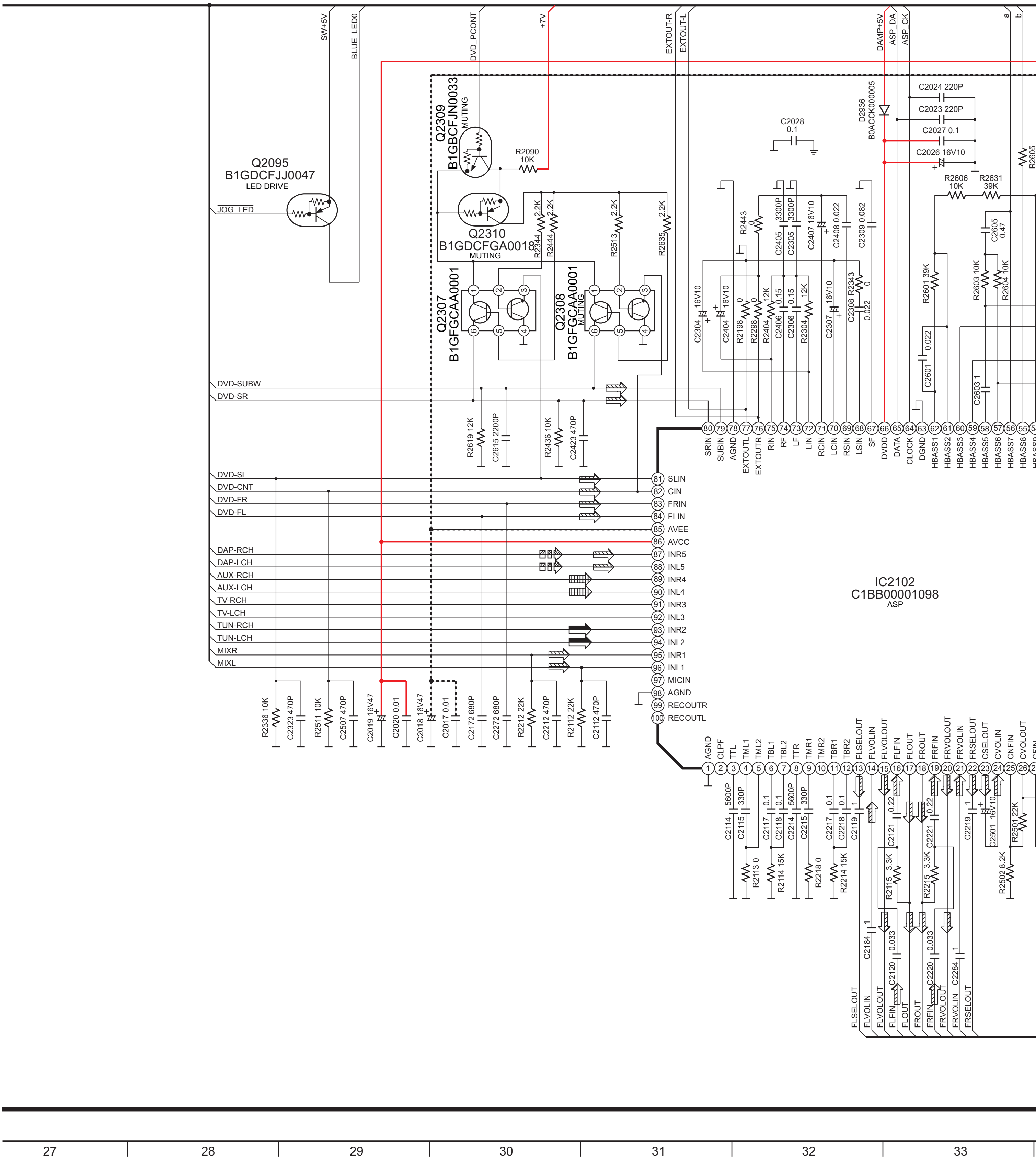

IC2001
MN101C49GHH
SYSTEM CONTROL
VREF
PCONT
OPEN_SW
LOAD
MUTE_C_SR
MUTE_F_SW
FHOP
MOD_DA
CEC_OUT
WIDE_SURR
VMUTE
HBASS CTRL
SELECT_A
R2980 10K
R2979 10K
R2978 10K
R2977 10K
R2065 10K
R2066 100K
R2068 56K
R2993 0
R2071 56K
R2089 220
R2060 220
R2059 220
R2088 220
R2051 100
R2955 220
R2950 220
R2951 220
75 N.C
74 N.C
73 N.C
72 N.C
71 PCONT
70 OPEN_SW
69 LOAD(CAM_SW)
68 MUTE_SC
67 N.C
66 MUTE_FSUB
65 HOP_DA(FHOP)
64 MOD_DA
63 N.C
62 HB_EN
61 MODEL_SEL2
60 MODEL_SEL1
59 REG1
58 AGC_SW
57 WS_EN
56 CEC_OUT
55 WIDE_SURR
54 N.C
53 VMUTE
52 SUB_LIMITER
51 MP_SEL(SELECT_A)
76 N.C
77 N.C
78 N.C
79 N.C
80 N.C
81 DC_DET
82 DISC1_LED
83 WS_LED
84 N.C
85 N.C
86 N.C
87 FLD_STB
88 N.C
89 FL_CK
90 FL_DAT
91 JOG_A
92 JOG_B
93 JOG_LED
94 LOAD_REV
95 VSS
96 LOAD_FWD
97 TURN_FWD
98 TURN_REW
99 N.C
100 VDD
DC_DET
DISC1_LED
WIDESURRLED
FL_STB
FL_CLK
FL_DAT
JOG_A
JOG_B
JOG_LED
LOAD_REV
LOAD_FWD
TURN_FWD
TURN_REW
R2062 220
R2057 220
R2077 220
R2078 220
R2079 220
R2058 220
R2063 220
R2080 220
R2081 220
R2082 220
MUTE_HP 50
ASP_CK 49
ASP_DA 48
RMPORT_DET 47
CHG_DIR(ROLE_CH) 46
MUTE_DVD 45
DVD_CK 44
DVD_STA 43
DVD_CMD 42
VPP 41
FM_DET 40
ST_DO(TU_ST) 39
TU_SD 38
TU_SDA(PLL_DA) 37
TU_SCL(PLL_CK) 36
AM_BP 35
PWM 34
RESET 33
VSS/VPP 32
SYNC 31
PULSE 30
POS_SW 29
CEC_IN 28
HOTPLUG 27
RMT 26
R2048 0
R2052 220
R2952 220
R2953 220
R2985 220
R2986 220
R2987 220
R2943 0
R2049 0
R2053 220
R2055 220
R2054 220
R2045 220
R2044 220
R2942 0
R2038 220
R2037 220
R2036 220
R2035 220
R2034 220
R2033 1K
1 AVSS
2 KEY1
3 KEY2
4 DES1
5 DES2
6 DES3
7 DISC SENSE
8 DES4
9 DES5
10 VREF+
11 VCC
12 XOUT
13 XIN
14 VSS
15 VSS
16 NC
17 VSS
18 DVD_PCONT
19 RF_DET(WM_DET)
20 RF_LINK(WM_LINK)
21 RF_PCNT(WM_UNMUTE)/PX_DA
22 N.C
23 EDA
24 ECK
25 ECS
R2073 47K
R2061 47K
R2012 100
R2013 100
R2014 220
R2971 220
R2972 220
R2025 220
R2026 220
R2027 100
R2028 100
R2029 100
R2030 100
R2031 100
R2032 100
X2001
H2D800400009
8MHz
1 IN
OUT 3
GND
2
R2039 22K
R2041 22K
R2040 22K
R2042 4.7K
R2043 100K
R2067 47K
R2064 10K
R2069 47K
R2070 47K
R2976 10K
R2975 10K
R2015 2.7K
R2016 47K
R2017 10K
R2018 10K
R2019 10K
R2020 10K
R2021 10K
R2023 0
R2024 4.7K
R2022 820
R2974 820
R2973 3.3K
KEY1
KEY2
DISC_SENSE
DVD_PCONT
RF_DET
RF_LINK
14
15
16
17
18
19
20


SYS6V
IC2004
(NOT SUPPLIED)
EEPROM
8 NC
7 GND
6 DO
5 DI
NC 1
VCC 2
CS 3
SK 4
C2013
0.022
R2085
4.7K
C2011
330P
R2086
22K
C2012
330P
R2087
22K
C2010
330P
EDA
HP_MUTE
ASP_CK
ASP_DA
MPORT_DET
ROLE_CHG
MUTE_DVD
DVD_CK
DVD_STA
DVD_CMD
RDS DET
TU_ST
TU_SD
TU_SDA
TU_SCL
AM_BP
PWM
PWM
SYNC
PULSE
POSITION
CEC_IN
HOTPLG
RMT
RESET
D2005
B0ACCK000005
L2008
G0C3R3JA0027
R2084
47K
C2007
0.1
C2009
0.1
C2008
6.3V100
D2007
B0ACCK000005
C2006
50V2.2
C2004
0.01
C2003
25V22
D2008
B0ACCK000005
Q2003
B1GBCFLL0037
RESET
R2039 22K
R2041 22K
R2040 22K
R2042 4.7K
R2043 100K
R2067 47K
R2064 10K
R2991 47K

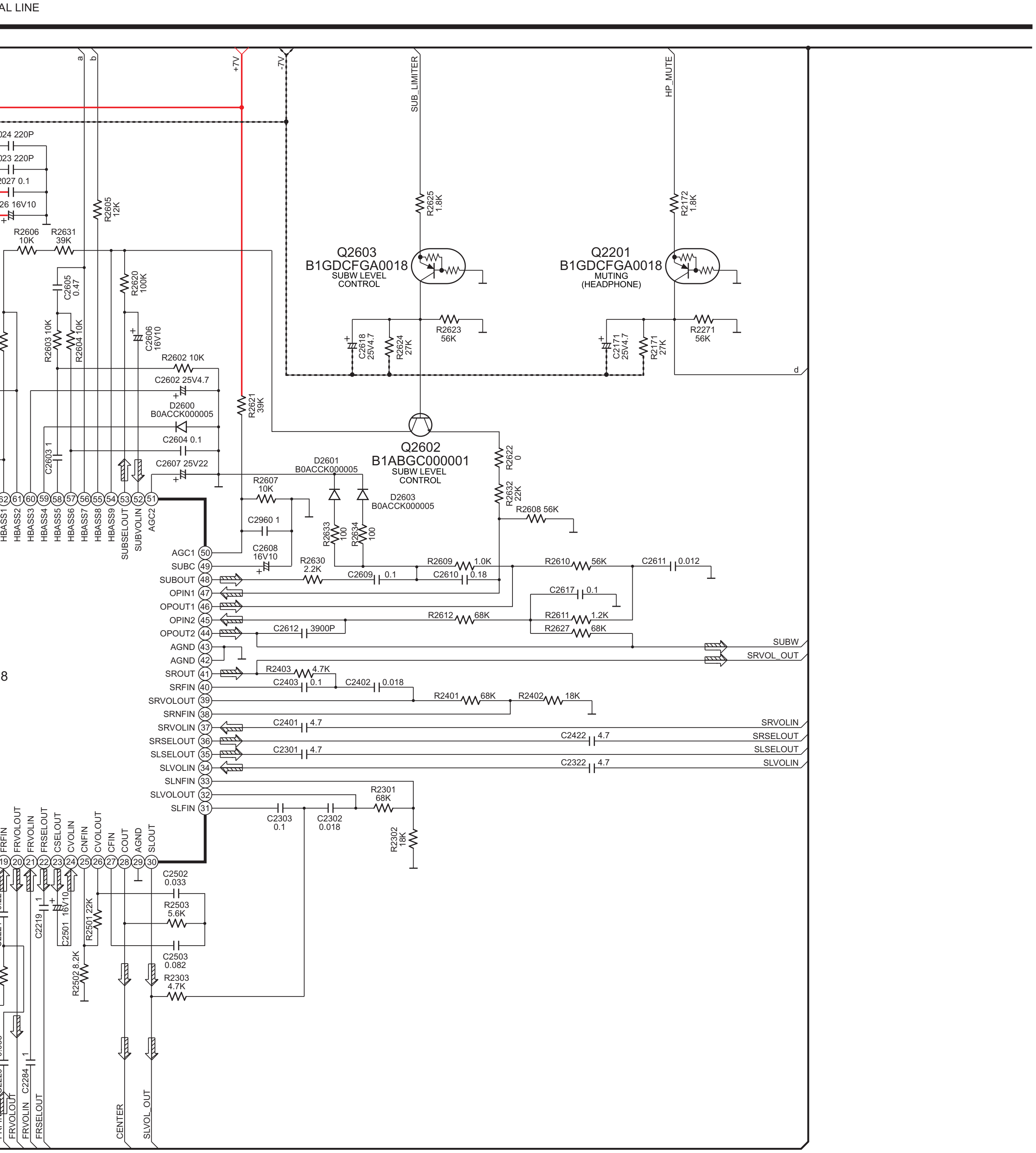
SCHEMATIC DIAGRAM-9

B MAIN CIRCUIT

: AUX SIGNAL LINE : MUSIC PORT SIGNAL LINE : MAIN SIGNAL LINE :+B SIGNAL LINE :-B SIGNAL LINE



SW+5V
BLUE_LED0
DVD_PCONT
+7V
EXTOUT-R
EXTOUT-L
DAMP+5V
ASP_DA
ASP_CK
a
b
Q2095
B1GDCFJJ0047
LED DRIVE
JOG_LED
Q2309
B1GBCFJN0033
MUTING
R2090
10K
Q2310
B1GDCFGA0018
MUTING
Q2307
B1GFGCAA0001
Q2308
B1GFGCAA0001
MUTING
R2344 2.2K
R2444 2.2K
R2513 2.2K
R2635 2.2K
C2028
0.1
D2936
B0ACCK000005
C2024 220P
C2023 220P
C2027 0.1
C2026 16V10
R2606
10K
R2631
39K
R2605
C2605
0.47
R2601 39K
R2603 10K
R2604 10K
C2601 0.022
C2603 1
R2443
0
C2405 3300P
C2305 3300P
C2407 16V10
C2408 0.022
C2309 0.082
C2304 16V10
C2404 16V10
R2198 0
R2298 0
R2404 12K
C2406 0.15
C2306 0.15
R2304 12K
C2307 16V10
C2308 0.022
R2343 0
DVD-SUBW
DVD-SR
R2619 12K
C2615 2200P
R2436 10K
C2423 470P
DVD-SL
DVD-CNT
DVD-FR
DVD-FL
DAP-RCH
DAP-LCH
AUX-RCH
AUX-LCH
TV-RCH
TV-LCH
TUN-RCH
TUN-LCH
MIXR
MIXL
R2336 10K
C2323 470P
R2511 10K
C2507 470P
C2019 16V47
C2020 0.01
C2018 16V47
C2017 0.01
C2172 680P
C2272 680P
R2212 22K
C2212 470P
R2112 22K
C2112 470P
IC2102
C1BB00001098
ASP
80 SRIN
79 SUBIN
78 AGND
77 EXTOUTL
76 EXTOUTR
75 RIN
74 RF
73 LF
72 LIN
71 RCIN
70 LCIN
69 RSIN
68 LSIN
67 SF
66 DVDD
65 DATA
64 CLOCK
63 DGND
62 HBASS1
61 HBASS2
60 HBASS3
59 HBASS4
58 HBASS5
57 HBASS6
56 HBASS7
55 HBASS8
81 SLIN
82 CIN
83 FRIN
84 FLIN
85 AVEE
86 AVCC
87 INR5
88 INL5
89 INR4
90 INL4
91 INR3
92 INL3
93 INR2
94 INL2
95 INR1
96 INL1
97 MICIN
98 AGND
99 RECOUTR
100 RECOUTL
1 AGND
2 CLPF
3 TTL
4 TML1
5 TML2
6 TBL1
7 TBL2
8 TTR
9 TMR1
10 TMR2
11 TBR1
12 TBR2
13 FLSELOUT
14 FLVOLIN
15 FLVOLOUT
16 FLFIN
17 FLOUT
18 FROUT
19 FRFIN
20 FRVOLOUT
21 FRVOLIN
22 FRSELOUT
23 CSELOUT
24 CVOLIN
25 CNFIN
26 CVOLOUT
C2114 5600P
C2115 330P
C2117 0.1
C2118 0.1
C2214 5600P
C2215 330P
C2217 0.1
C2218 0.1
C2119 1
C2121 0.22
C2221 0.22
C2219 1
C2501 16V10
R2501 22K
R2113 0
R2114 15K
R2218 0
R2214 15K
R2115 3.3K
R2215 3.3K
R2502 8.2K
C2184 1
C2120 0.033
C2220 0.033
C2284 1
FLSELOUT
FLVOLIN
FLVOLOUT
FLFIN
FLOUT
FROUT
FRFIN
FRVOLOUT
FRVOLIN
FRSELOUT
27
28
29
30
31
32
33


AL LINE
a
b
+7V
-7V
SUB_LIMITER
HP_MUTE
24 220P
23 220P
027 0.1
26 16V10
R2605 12K
R2606 10K
R2631 39K
R2625 1.8K
R2172 1.8K
Q2603
B1GDCFGA0018
SUBW LEVEL CONTROL
Q2201
B1GDCFGA0018
MUTING (HEADPHONE)
C2605 0.47
R2620 100K
C2606 16V10
R2603 10K
R2604 10K
R2602 10K
C2602 25V4.7
D2600
B0ACCK000005
C2604 0.1
C2603 1
C2607 25V22
C2618 25V4.7
R2624 27K
R2623 56K
C2171 25V4.7
R2171 27K
R2271 56K
d
R2621 39K
Q2602
B1ABGC000001
SUBW LEVEL CONTROL
R2622 0
R2632 22K
R2608 56K
D2601
B0ACCK000005
D2603
B0ACCK000005
R2607 10K
C2960 1
C2608 16V10
R2633 100
R2634 100
R2630 2.2K
C2609 0.1
C2610 0.18
R2609 1.0K
R2610 56K
C2611 0.012
C2617 0.1
R2612 68K
R2611 1.2K
R2627 68K
C2612 3900P
SUBW
SRVOL_OUT
R2403 4.7K
C2403 0.1
C2402 0.018
R2401 68K
R2402 18K
C2401 4.7
C2422 4.7
C2301 4.7
C2322 4.7
SRVOLIN
SRSELOUT
SLSELOUT
SLVOLIN
R2301 68K
C2303 0.1
C2302 0.018
R2302 18K
62 HBASS1
61 HBASS2
60 HBASS3
59 HBASS4
58 HBASS5
57 HBASS6
56 HBASS7
55 HBASS8
54 HBASS9
53 SUBSELOUT
52 SUBVOLIN
51 AGC2
AGC1 50
SUBC 49
SUBOUT 48
OPIN1 47
OPOUT1 46
OPIN2 45
OPOUT2 44
AGND 43
AGND 42
SROUT 41
SRFIN 40
SRVOLOUT 39
SRNFIN 38
SRVOLIN 37
SRSELOUT 36
SLSELOUT 35
SLVOLIN 34
SLNFIN 33
SLVOLOUT 32
SLFIN 31
19 FRFIN
20 FRVOLOUT
21 FRVOLIN
22 FRSELOUT
23 CSELOUT
24 CVOLIN
25 CNFIN
26 CVOLOUT
27 CFIN
28 COUT
29 AGND
30 SLOUT
8
C2219 1
C2501 16V10
R2501 22K
R2502 8.2K
C2502 0.033
R2503 5.6K
C2503 0.082
R2303 4.7K
C2284 1
FRVOLOUT
FRVOLIN
FRSELOUT
CENTER
SLVOL_OUT

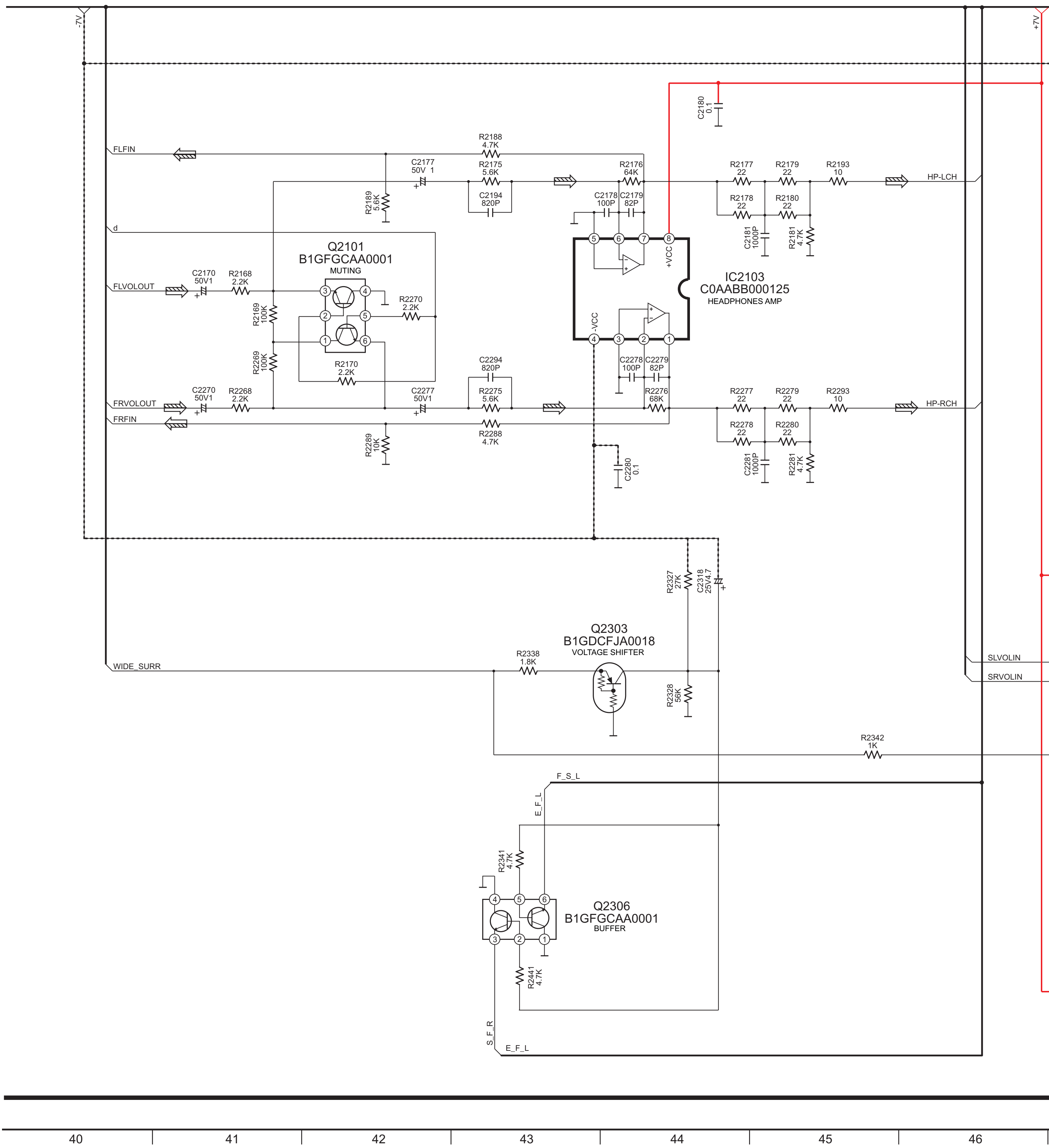
SA-HT940P/PC MAIN CIRCUIT

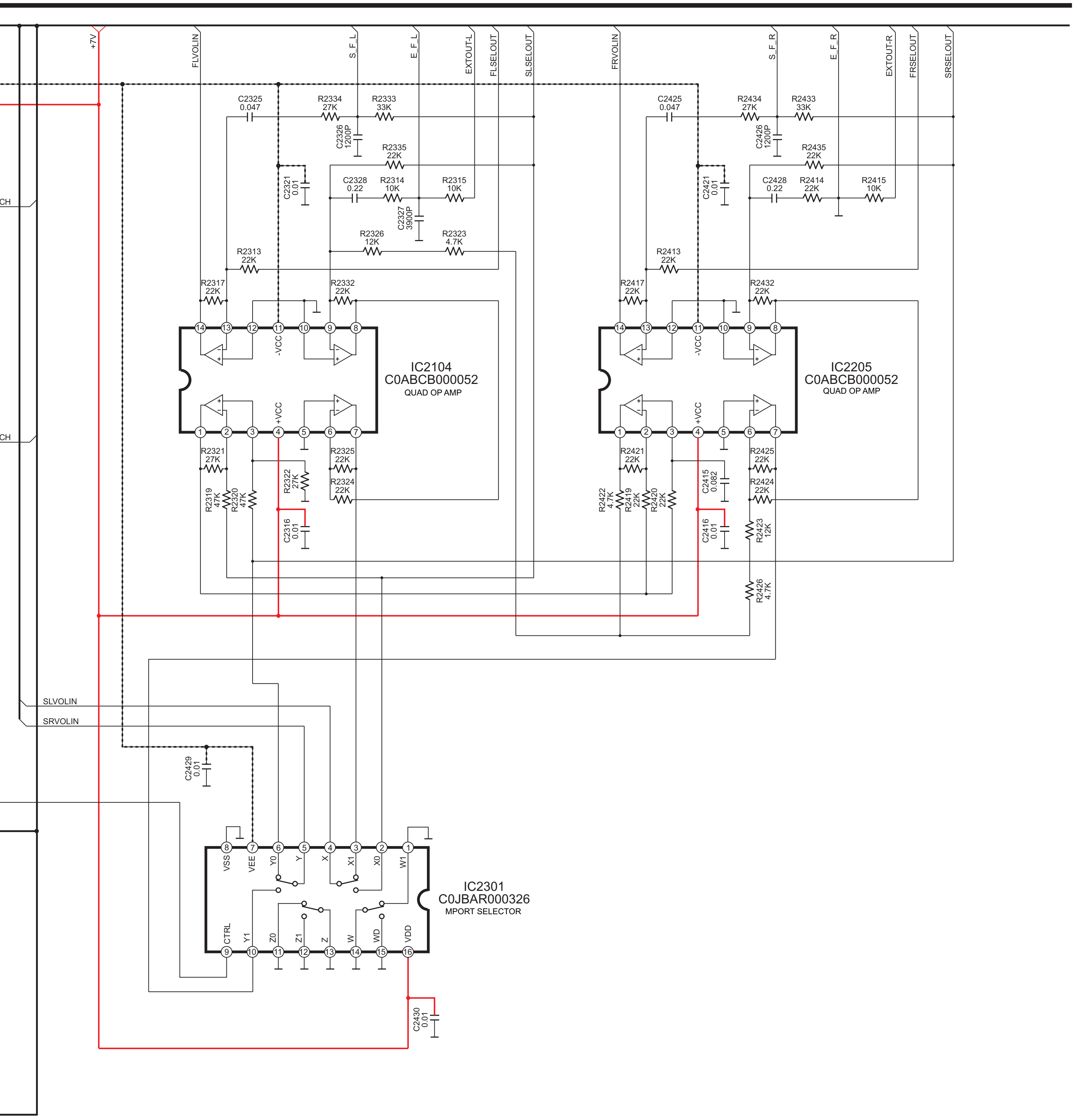
33 34 35 36 37 38 39

SCHEMATIC DIAGRAM-10

B MAIN CIRCUIT

⇨ :MAIN SIGNAL LINE — :+B SIGNAL LINE ---- :-B SIGNAL LINE

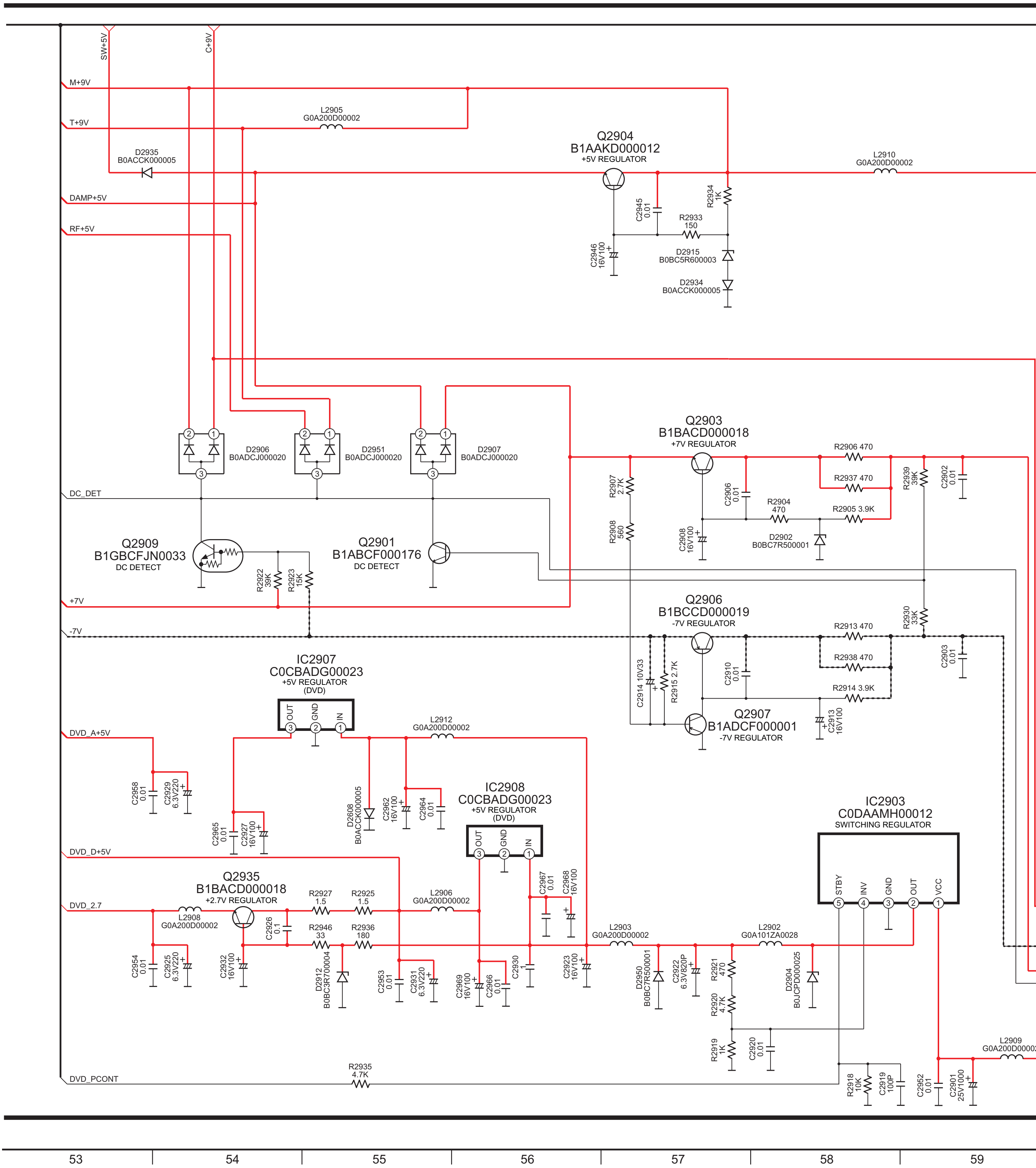

-7V
+7V
FLFIN
d
FLVOLOUT
FRVOLOUT
FRFIN
WIDE_SURR
SLVOLIN
SRVOLIN
HP-LCH
HP-RCH
R2188 4.7K
C2177 50V 1
R2175 5.6K
R2176 64K
R2189 5.6K
C2194 820P
C2178 100P
C2179 82P
C2180 0.1
R2177 22
R2179 22
R2193 10
R2178 22
R2180 22
C2181 1000P
R2181 4.7K
Q2101
B1GFGCAA0001
MUTING
C2170 50V1
R2168 2.2K
R2169 100K
R2270 2.2K
R2269 100K
R2170 2.2K
IC2103
C0AABB000125
HEADPHONES AMP
+VCC
-VCC
C2294 820P
C2270 50V1
R2268 2.2K
C2277 50V1
R2275 5.6K
C2278 100P
C2279 82P
R2276 68K
R2277 22
R2279 22
R2293 10
R2278 22
R2280 22
C2281 1000P
R2281 4.7K
R2288 4.7K
R2289 10K
C2280 0.1
R2327 27K
C2318 25V4.7
Q2303
B1GDCFJA0018
VOLTAGE SHIFTER
R2338 1.8K
R2328 56K
R2342 1K
F_S_L
E_F_L
R2341 4.7K
Q2306
B1GFGCAA0001
BUFFER
R2441 4.7K
S_F_R
E_F_L
40
41
42
43
44
45
46


+7V
FLVOLIN
S_F_L
E_F_L
EXTOUT-L
FLSELOUT
SLSELOUT
FRVOLIN
S_F_R
E_F_R
EXTOUT-R
FRSELOUT
SRSELOUT
CH
CH
C2325 0.047
R2334 27K
R2333 33K
C2326 1200P
R2335 22K
C2321 0.01
C2328 0.22
R2314 10K
R2315 10K
C2327 3900P
R2326 12K
R2323 4.7K
R2313 22K
R2317 22K
R2332 22K
-VCC
+VCC
IC2104
C0ABCB000052
QUAD OP AMP
R2321 27K
R2325 22K
R2324 22K
R2319 47K
R2320 47K
R2322 27K
C2316 0.01
C2425 0.047
R2434 27K
R2433 33K
C2426 1200P
R2435 22K
C2421 0.01
C2428 0.22
R2414 22K
R2415 10K
R2413 22K
R2417 22K
R2432 22K
IC2205
C0ABCB000052
QUAD OP AMP
R2421 22K
R2425 22K
R2424 22K
R2422 4.7K
R2419 22K
R2420 22K
C2415 0.082
C2416 0.01
R2423 12K
R2426 4.7K
SLVOLIN
SRVOLIN
C2429 0.01
VSS
VEE
Y0
Y
X
X1
X0
W1
CTRL
Y1
Z0
Z1
Z
W
WD
VDD
IC2301
C0JBAR000326
MPORT SELECTOR
C2430 0.01

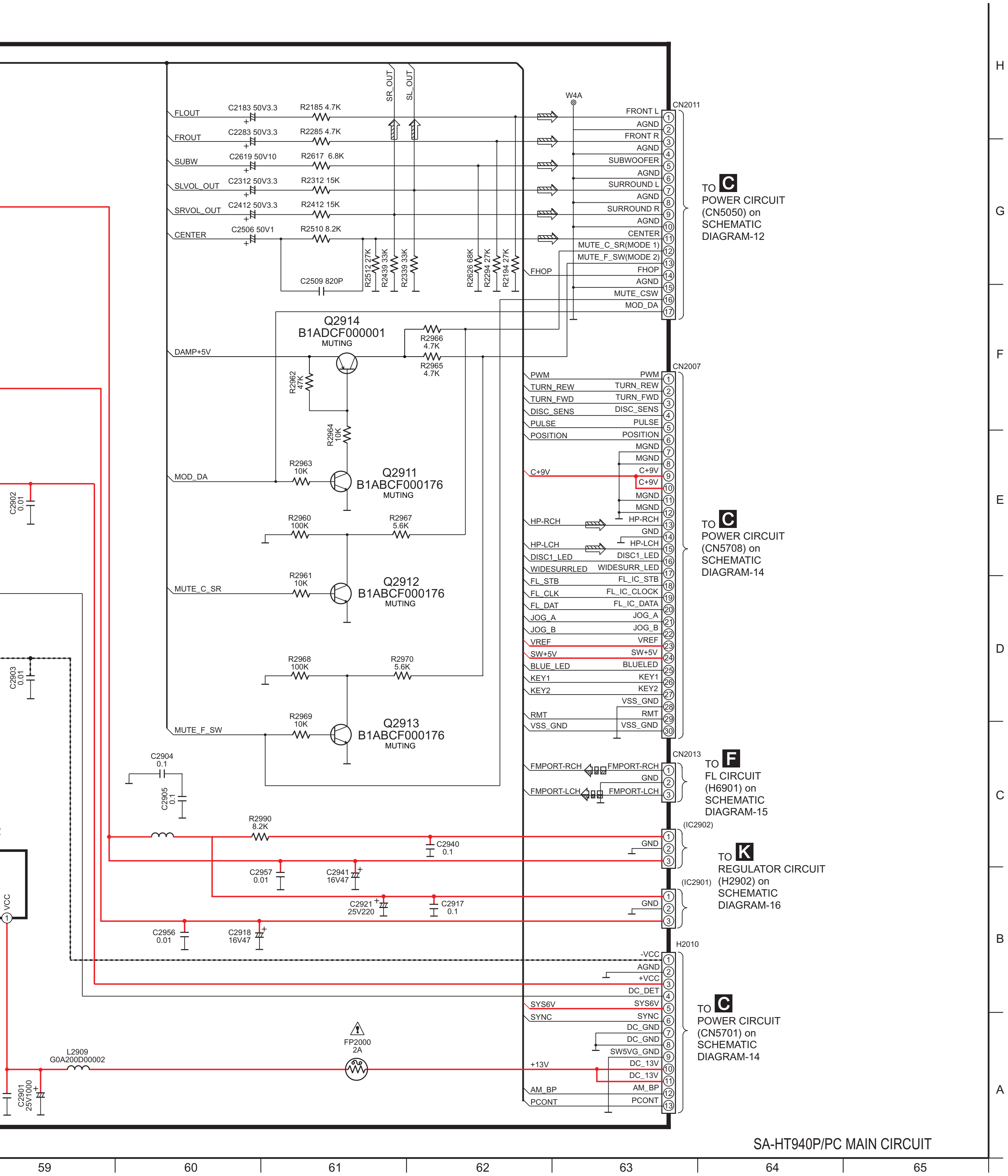
SCHEMATIC DIAGRAM-11

B MAIN CIRCUIT

:MAIN SIGNAL LINE : MUSIC PORT SIGNAL LINE :+B SIGNAL LINE :-B SIGNAL LINE



SW+5V
C+9V
M+9V
T+9V
L2905
G0A200D00002
D2935
B0ACCK000005
DAMP+5V
RF+5V
Q2904
B1AAKD000012
+5V REGULATOR
L2910
G0A200D00002
C2945
0.01
R2934
1K
R2933
150
C2946
16V100
D2915
B0BC5R600003
D2934
B0ACCK000005
D2906
B0ADCJ000020
D2951
B0ADCJ000020
D2907
B0ADCJ000020
DC_DET
Q2909
B1GBCFJN0033
DC DETECT
Q2901
B1ABCF000176
DC DETECT
R2922
39K
R2923
15K
+7V
-7V
Q2903
B1BACD000018
+7V REGULATOR
R2906 470
R2937 470
R2907
2.7K
R2908
560
C2906
0.01
R2904
470
R2905 3.9K
C2908
16V100
D2902
B0BC7R500001
R2939
39K
C2902
0.01
Q2906
B1BCCD000019
-7V REGULATOR
R2913 470
R2938 470
R2914 3.9K
R2930
33K
C2903
0.01
C2914 10V33
R2915 2.7K
C2910
0.01
Q2907
B1ADCF000001
-7V REGULATOR
C2913
16V100
IC2907
C0CBADG00023
+5V REGULATOR
(DVD)
OUT
GND
IN
L2912
G0A200D00002
DVD_A+5V
C2958
0.01
C2929
6.3V220
C2965
0.01
C2927
16V100
D2608
B0ACCK000005
C2962
16V100
C2964
0.01
IC2908
C0CBADG00023
+5V REGULATOR
(DVD)
IC2903
C0DAAMH00012
SWITCHING REGULATOR
STBY
INV
GND
OUT
VCC
DVD_D+5V
Q2935
B1BACD000018
+2.7V REGULATOR
DVD_2.7
L2908
G0A200D00002
R2927
1.5
R2925
1.5
L2906
G0A200D00002
C2926
0.1
R2946
33
R2936
180
C2967
0.01
C2968
16V100
L2903
G0A200D00002
L2902
G0A101ZA0028
C2954
0.01
C2925
6.3V220
C2932
16V100
D2912
B0BC3R700004
C2953
0.01
C2931
6.3V220
C2969
16V100
C2966
0.01
C2930
1
C2923
16V100
D2950
B0BC7R500001
C2922
6.3V820P
R2921
470
D2904
B0JCPD000025
R2920
4.7K
R2919
1K
C2920
0.01
L2909
G0A200D00002
DVD_PCONT
R2935
4.7K
R2918
10K
C2919
100P
C2952
0.01
C2901
25V1000
53
54
55
56
57
58
59

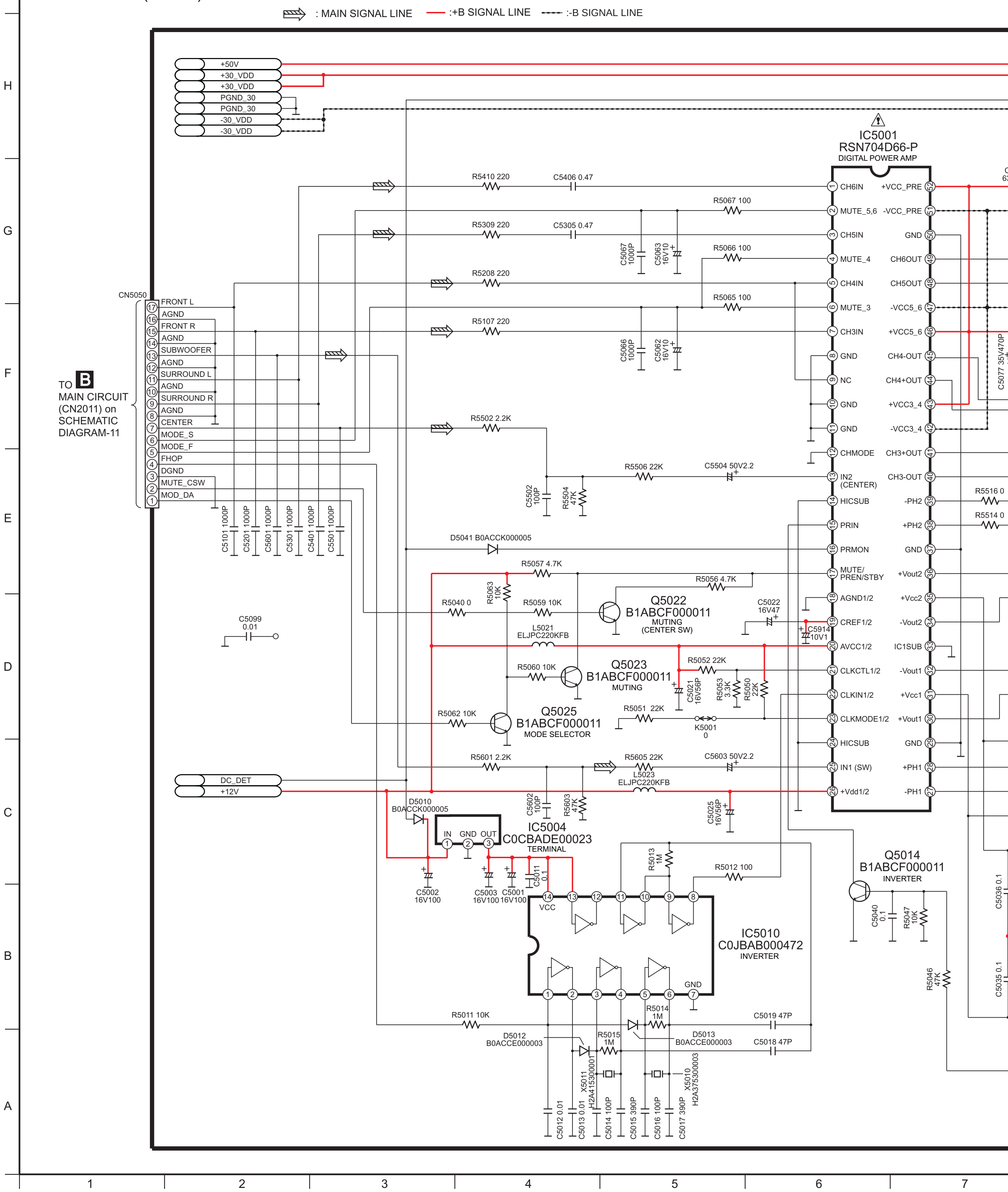

FLOUT
C2183 50V3.3
R2185 4.7K
FROUT
C2283 50V3.3
R2285 4.7K
SUBW
C2619 50V10
R2617 6.8K
SLVOL_OUT
C2312 50V3.3
R2312 15K
SRVOL_OUT
C2412 50V3.3
R2412 15K
CENTER
C2506 50V1
R2510 8.2K
C2509 820P
SR_OUT
SL_OUT
R2512 27K
R2439 33K
R2339 33K
R2626 68K
R2294 27K
R2194 27K
W4A
FHOP
CN2011
FRONT L
AGND
FRONT R
AGND
SUBWOOFER
AGND
SURROUND L
AGND
SURROUND R
AGND
CENTER
MUTE_C_SR(MODE 1)
MUTE_F_SW(MODE 2)
FHOP
AGND
MUTE_CSW
MOD_DA
TO C
POWER CIRCUIT
(CN5050) on
SCHEMATIC
DIAGRAM-12
Q2914
B1ADCF000001
MUTING
R2966
4.7K
R2965
4.7K
DAMP+5V
R2962
47K
R2964
10K
MOD_DA
R2963
10K
Q2911
B1ABCF000176
MUTING
R2960
100K
R2967
5.6K
MUTE_C_SR
R2961
10K
Q2912
B1ABCF000176
MUTING
R2968
100K
R2970
5.6K
MUTE_F_SW
R2969
10K
Q2913
B1ABCF000176
MUTING
C2902
0.01
C2903
0.01
C2904
0.1
C2905
0.1
CN2007
PWM
TURN_REW
TURN_FWD
DISC_SENS
PULSE
POSITION
MGND
MGND
C+9V
C+9V
MGND
MGND
HP-RCH
GND
HP-LCH
DISC1_LED
WIDESURRLED
WIDESURR_LED
FL_STB
FL_IC_STB
FL_CLK
FL_IC_CLOCK
FL_DAT
FL_IC_DATA
JOG_A
JOG_B
VREF
SW+5V
BLUE_LED
BLUELED
KEY1
KEY2
VSS_GND
RMT
VSS_GND
TO C
POWER CIRCUIT
(CN5708) on
SCHEMATIC
DIAGRAM-14
CN2013
FMPORT-RCH
GND
FMPORT-LCH
TO F
FL CIRCUIT
(H6901) on
SCHEMATIC
DIAGRAM-15
R2990
8.2K
C2940
0.1
C2957
0.01
C2941
16V47
C2921
25V220
C2917
0.1
C2956
0.01
C2918
16V47
(IC2902)
GND
(IC2901)
GND
TO K
REGULATOR CIRCUIT
(H2902) on
SCHEMATIC
DIAGRAM-16
VCC
H2010
-VCC
AGND
+VCC
DC_DET
SYS6V
SYNC
DC_GND
DC_GND
SW5VG_GND
+13V
DC_13V
DC_13V
AM_BP
PCONT
TO C
POWER CIRCUIT
(CN5701) on
SCHEMATIC
DIAGRAM-14
L2909
G0A200D00002
FP2000
2A
C2901
25V1000
H
G
F
E
D
C
B
A
59
60
61
62
63
64
65

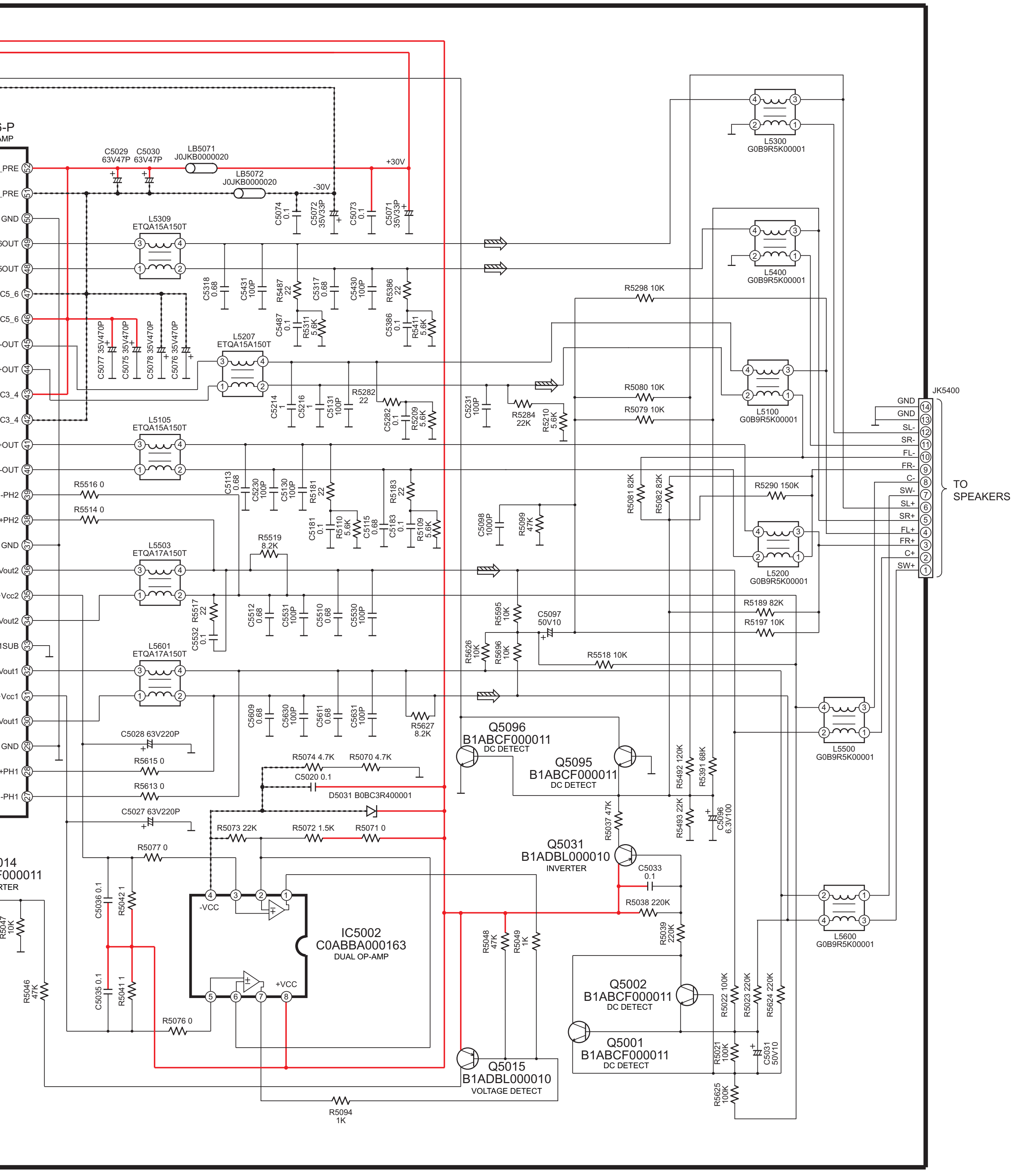
SA-HT940P/PC MAIN CIRCUIT

19.3. (C) Power, AC-inlet and Sub power Circuit

SCHEMATIC DIAGRAM-12

C POWER(DAMP) CIRCUIT


: MAIN SIGNAL LINE
:+B SIGNAL LINE
:-B SIGNAL LINE
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
+50V
+30_VDD
+30_VDD
PGND_30
PGND_30
-30_VDD
-30_VDD
IC5001
RSN704D66-P
DIGITAL POWER AMP
CN5050
FRONT L
AGND
FRONT R
AGND
SUBWOOFER
AGND
SURROUND L
AGND
SURROUND R
AGND
CENTER
MODE_S
MODE_F
FHOP
DGND
MUTE_CSW
MOD_DA
TO B
MAIN CIRCUIT
(CN2011) on
SCHEMATIC
DIAGRAM-11
R5410 220
C5406 0.47
R5067 100
R5309 220
C5305 0.47
C5067 1000P
C5063 16V10
R5066 100
R5208 220
R5065 100
R5107 220
C5066 1000P
C5062 16V10
R5502 2.2K
R5506 22K
C5504 50V2.2
C5502 100P
R5504 47K
C5101 1000P
C5201 1000P
C5601 1000P
C5301 1000P
C5401 1000P
C5501 1000P
D5041 B0ACCK000005
R5057 4.7K
R5056 4.7K
R5063 10K
R5040 0
R5059 10K
Q5022
B1ABCF000011
MUTING
(CENTER SW)
C5022 16V47
C5914 10V1
L5021
ELJPC220KFB
C5099
0.01
R5060 10K
Q5023
B1ABCF000011
MUTING
R5052 22K
C5021 16V56P
R5053 3.3K
R5050 22K
R5062 10K
Q5025
B1ABCF000011
MODE SELECTOR
R5051 22K
K5001
0
R5601 2.2K
R5605 22K
C5603 50V2.2
L5023
ELJPC220KFB
DC_DET
+12V
D5010
B0ACCK000005
C5602 100P
R5603 47K
C5025 16V56P
IC5004
C0CBADE00023
TERMINAL
IN GND OUT
C5002 16V100
C5003 16V100
C5001 16V100
C5011 0.1
VCC
R5013 1M
R5012 100
IC5010
C0JBAB000472
INVERTER
GND
R5011 10K
R5014 1M
C5019 47P
D5012
B0ACCE000003
R5015 1M
D5013
B0ACCE000003
C5018 47P
X5011 H2A415300001
X5010 H2A375300003
C5012 0.01
C5013 0.01
C5014 100P
C5015 390P
C5016 100P
C5017 390P
CH6IN
MUTE_5,6
CH5IN
MUTE_4
CH4IN
MUTE_3
CH3IN
GND
NC
GND
GND
CHMODE
IN2 (CENTER)
HICSUB
PRIN
PRMON
MUTE/ PREN/STBY
AGND1/2
CREF1/2
AVCC1/2
CLKCTL1/2
CLKIN1/2
CLKMODE1/2
HICSUB
IN1 (SW)
+Vdd1/2
+VCC_PRE
-VCC_PRE
GND
CH6OUT
CH5OUT
-VCC5_6
+VCC5_6
CH4-OUT
CH4+OUT
+VCC3_4
-VCC3_4
CH3+OUT
CH3-OUT
-PH2
+PH2
GND
+Vout2
+Vcc2
-Vout2
IC1SUB
-Vout1
+Vcc1
+Vout1
GND
+PH1
-PH1
C5077 35V470P
R5516 0
R5514 0
Q5014
B1ABCF000011
INVERTER
C5040 0.1
R5047 10K
C5036 0.1
R5046 47K
C5035 0.1



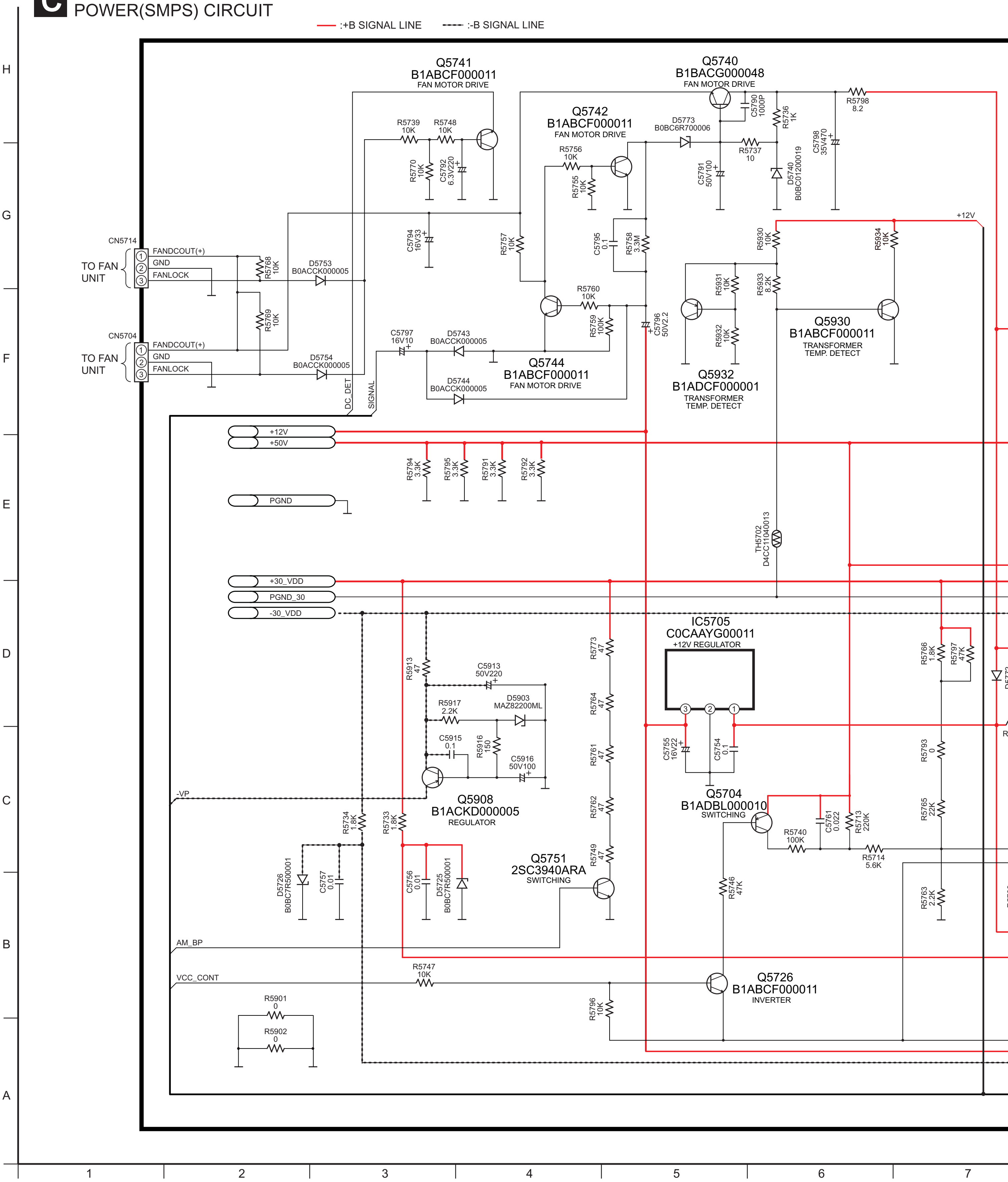
C5029 63V47P
C5030 63V47P
LB5071 J0JKB0000020
LB5072 J0JKB0000020
+30V
-30V
C5074 0.1
C5072 35V33P
C5073 0.1
C5071 35V33P
L5309 ETQA15A150T
C5318 0.68
C5431 100P
R5487 22
C5317 0.68
C5430 100P
R5386 22
C5487 0.1
R5311 5.6K
C5386 0.1
R5411 5.6K
C5077 35V470P
C5075 35V470P
C5078 35V470P
C5076 35V470P
L5207 ETQA15A150T
C5214 1
C5216 1
C5131 100P
R5282 22
C5282 0.1
R5209 5.6K
C5231 100P
R5284 22K
R5210 5.6K
L5105 ETQA15A150T
R5516 0
R5514 0
C5113 0.68
C5230 100P
C5130 100P
R5181 22
R5183 22
C5181 0.1
R5110 5.6K
C5115 0.68
C5183 0.1
R5109 5.6K
R5519 8.2K
L5503 ETQA17A150T
C5532 0.1
R5517 22
C5512 0.68
C5531 100P
C5510 0.68
C5530 100P
L5601 ETQA17A150T
C5609 0.68
C5630 100P
C5611 0.68
C5631 100P
R5627 8.2K
C5028 63V220P
R5615 0
R5613 0
C5027 63V220P
R5074 4.7K
R5070 4.7K
C5020 0.1
D5031 B0BC3R400001
R5073 22K
R5072 1.5K
R5071 0
R5077 0
C5036 0.1
R5042 1
C5035 0.1
R5041 1
R5047 10K
R5046 47K
R5076 0
-VCC
+VCC
IC5002
C0ABBA000163
DUAL OP-AMP
R5048 47K
R5049 1K
Q5015
B1ADBL000010
VOLTAGE DETECT
R5094 1K
Q5096
B1ABCF000011
DC DETECT
Q5095
B1ABCF000011
DC DETECT
R5037 47K
Q5031
B1ADBL000010
INVERTER
C5033 0.1
R5038 220K
R5039 220K
Q5002
B1ABCF000011
DC DETECT
Q5001
B1ABCF000011
DC DETECT
R5022 100K
R5023 220K
R5624 220K
R5021 100K
C5031 50V10
R5625 100K
R5492 120K
R5391 68K
R5493 22K
C5096 6.3V100
C5098 1000P
R5099 47K
R5595 10K
C5097 50V10
R5626 10K
R5696 10K
R5518 10K
R5298 10K
R5080 10K
R5079 10K
R5081 82K
R5082 82K
R5290 150K
R5189 82K
R5197 10K
L5300 G0B9R5K00001
L5400 G0B9R5K00001
L5100 G0B9R5K00001
L5200 G0B9R5K00001
L5500 G0B9R5K00001
L5600 G0B9R5K00001
JK5400
GND 14
GND 13
SL- 12
SR- 11
FL- 10
FR- 9
C- 8
SW- 7
SL+ 6
SR+ 5
FL+ 4
FR+ 3
C+ 2
SW+ 1
TO SPEAKERS
-P
AMP
_PRE 52
_PRE 51
GND 50
OUT 49
OUT 48
C5_6 47
C5_6 46
-OUT 45
-OUT 44
C3_4 43
C3_4 42
-OUT 41
-OUT 40
-PH2 39
+PH2 38
GND 37
Vout2 36
Vcc2 35
Vout2 34
SUB 33
Vout1 32
Vcc1 31
Vout1 30
GND 29
+PH1 28
-PH1 27
014
F000011
RTER

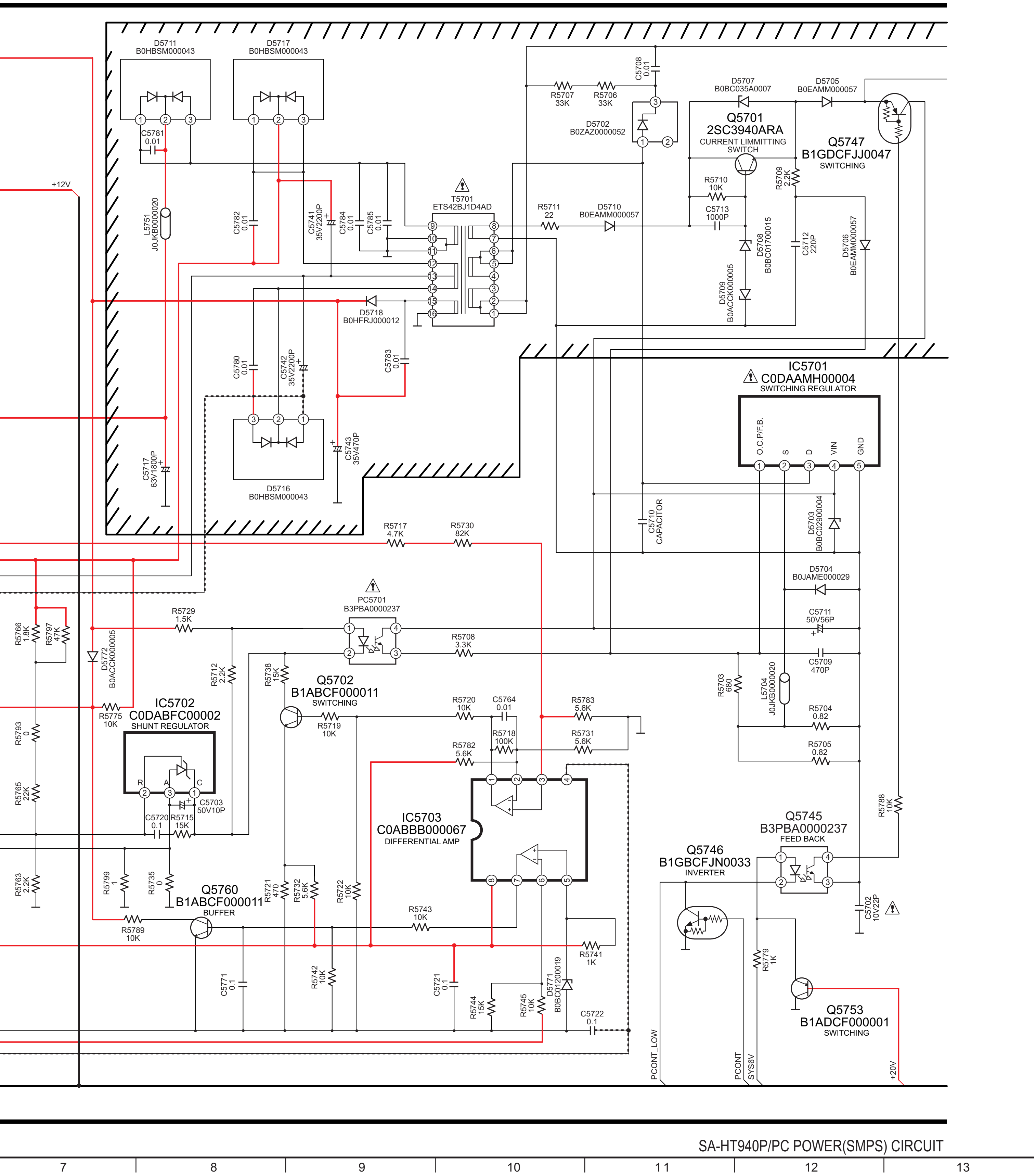
SA-HT940P/PC POWER(DAMP) CIRCUIT

SCHEMATIC DIAGRAM-13

C POWER(SMPS) CIRCUIT

:+B SIGNAL LINE :-B SIGNAL LINE


H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
Q5741
B1ABCF000011
FAN MOTOR DRIVE
Q5740
B1BACG000048
FAN MOTOR DRIVE
Q5742
B1ABCF000011
FAN MOTOR DRIVE
R5739 10K
R5748 10K
R5770 10K
C5792 6.3V220
R5756 10K
R5755 10K
D5773 B0BC6R700006
C5790 1000P
R5736 1K
R5798 8.2
R5737 10
C5791 50V100
D5740 B0BC01200019
C5798 35V470
+12V
CN5714
TO FAN UNIT
FANDCOUT(+)
GND
FANLOCK
R5768 10K
D5753 B0ACCK000005
C5794 16V33
R5757 10K
C5795 0.1
R5758 3.3M
R5930 10K
R5934 10K
R5931 10K
R5933 8.2K
R5760 10K
R5759 100K
C5796 50V2.2
Q5930
B1ABCF000011
TRANSFORMER TEMP. DETECT
R5932 10K
CN5704
TO FAN UNIT
FANDCOUT(+)
GND
FANLOCK
R5769 10K
D5754 B0ACCK000005
C5797 16V10
D5743 B0ACCK000005
D5744 B0ACCK000005
Q5744
B1ABCF000011
FAN MOTOR DRIVE
Q5932
B1ADCF000001
TRANSFORMER TEMP. DETECT
DC_DET
SIGNAL
+12V
+50V
R5794 3.3K
R5795 3.3K
R5791 3.3K
R5792 3.3K
PGND
TH5702 D4CC11040013
+30_VDD
PGND_30
-30_VDD
IC5705
C0CAAYG00011
+12V REGULATOR
R5773 47
R5913 47
C5913 50V220
R5917 2.2K
D5903 MAZ82200ML
C5915 0.1
R5916 150
C5916 50V100
R5764 47
R5761 47
C5755 16V22
C5754 0.1
R5766 1.8K
R5797 47K
R5793 0
-VP
Q5908
B1ACKD000005
REGULATOR
R5762 47
Q5704
B1ADBL000010
SWITCHING
R5740 100K
C5761 0.022
R5713 220K
R5714 5.6K
R5765 22K
R5734 1.8K
R5733 1.8K
D5726 B0BC7R500001
C5757 0.01
C5756 0.01
D5725 B0BC7R500001
Q5751
2SC3940ARA
SWITCHING
R5749 47
R5746 47K
R5763 2.2K
AM_BP
VCC_CONT
R5747 10K
Q5726
B1ABCF000011
INVERTER
R5796 10K
R5901 0
R5902 0


D5711
B0HBSM000043
D5717
B0HBSM000043
C5708
0.01
R5707
33K
R5706
33K
D5707
B0BC035A0007
D5705
B0EAMM000057
Q5701
2SC3940ARA
CURRENT LIMMITTING
SWITCH
D5702
B0ZAZ0000052
Q5747
B1GDCFJJ0047
SWITCHING
C5781
0.01
+12V
R5710
10K
R5709
2.2K
T5701
ETS42BJ1D4AD
R5711
22
D5710
B0EAMM000057
C5713
1000P
L5751
J0JKB0000020
C5782
0.01
C5741
35V2200P
C5784
0.01
C5785
0.01
D5708
B0BC01700015
C5712
220P
D5706
B0EAMM000057
D5709
B0ACCK000005
D5718
B0HFRJ000012
C5780
0.01
C5742
35V2200P
C5783
0.01
IC5701
C0DAAMH00004
SWITCHING REGULATOR
O.C.P/F.B.
S
D
VIN
GND
C5743
35V470P
C5717
63V1800P
D5716
B0HBSM000043
C5710
CAPACITOR
D5703
B0BC02900004
R5717
4.7K
R5730
82K
D5704
B0JAME000029
PC5701
B3PBA0000237
R5729
1.5K
C5711
50V56P
R5766
1.8K
R5797
47K
D5772
B0ACCK000005
R5708
3.3K
C5709
470P
R5712
2.2K
R5738
15K
Q5702
B1ABCF000011
SWITCHING
R5703
680
L5704
J0JKB0000020
R5775
10K
IC5702
C0DABFC00002
SHUNT REGULATOR
R5720
10K
C5764
0.01
R5783
5.6K
R5704
0.82
R5793
0
R5719
10K
R5718
100K
R5731
5.6K
R5782
5.6K
R5705
0.82
R
A
C
R5765
22K
C5720
0.1
R5715
15K
C5703
50V10P
IC5703
C0ABBB000067
DIFFERENTIAL AMP
Q5745
B3PBA0000237
FEED BACK
R5788
10K
Q5746
B1GBCFJN0033
INVERTER
R5763
2.2K
R5799
1
R5735
0
Q5760
B1ABCF000011
BUFFER
R5721
470
R5732
5.6K
R5722
10K
R5743
10K
C5702
10V22P
R5789
10K
R5741
1K
C5771
0.1
R5742
10K
C5721
0.1
D5771
B0BC01200019
R5779
1K
R5744
15K
R5745
10K
C5722
0.1
Q5753
B1ADCF000001
SWITCHING
PCONT_LOW
PCONT
SYS6V
+20V
7
8
9
10
11
12
13

SA-HT940P/PC POWER(SMPS) CIRCUIT

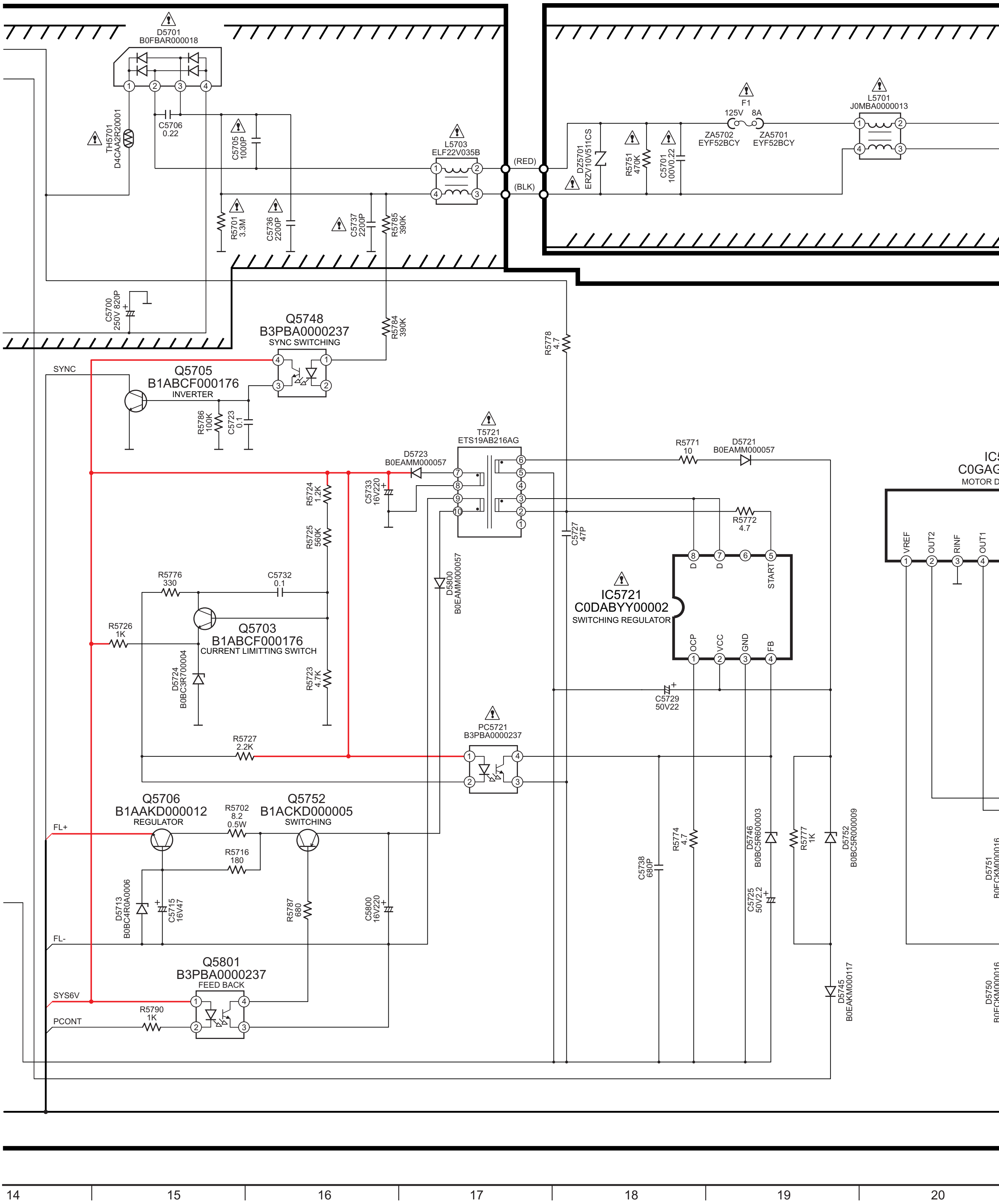
SCHEMATIC DIAGRAM-14

C POWER(SMPS) CIRCUIT

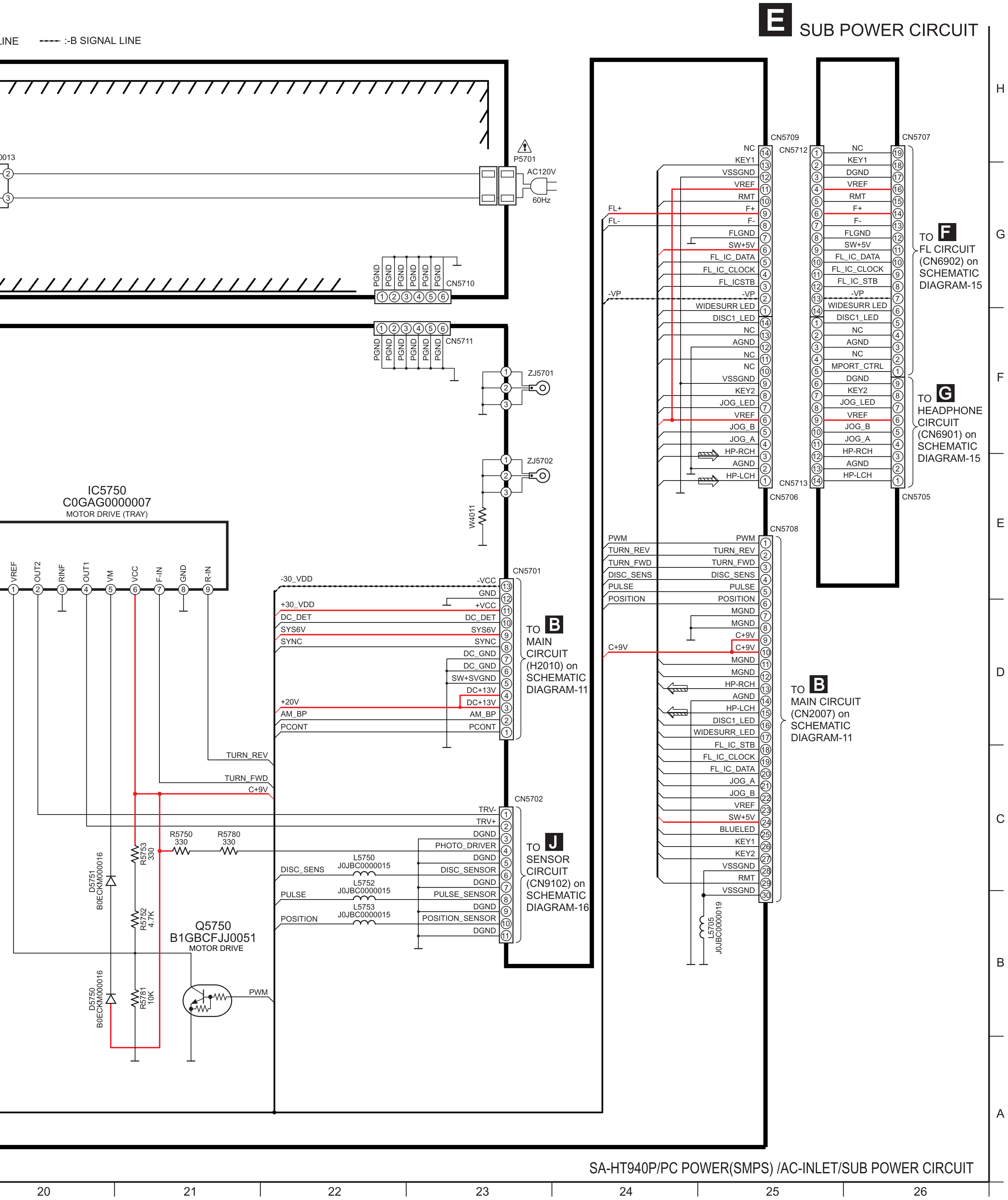
: MAIN SIGNAL LINE

D AC-INLET CIRCUIT

:+B SIGNAL LINE :-B SIGN


D5701
B0FBAR000018
TH5701
D4CAA2R20001
C5706
0.22
C5705
1000P
L5703
ELF22V035B
(RED)
(BLK)
R5701
3.3M
C5736
2200P
C5737
2200P
R5785
390K
C5700
250V 820P
Q5748
B3PBA0000237
SYNC SWITCHING
R5784
390K
R5778
4.7
SYNC
Q5705
B1ABCF000176
INVERTER
R5786
100K
C5723
0.1
T5721
ETS19AB216AG
D5723
B0EAMM000057
R5724
1.2K
C5733
16V220
R5725
560K
D5800
B0EAMM000057
C5727
47P
R5771
10
D5721
B0EAMM000057
R5772
4.7
R5776
330
C5732
0.1
Q5703
B1ABCF000176
CURRENT LIMITTING SWITCH
R5726
1K
D5724
B0BC3R700004
R5723
4.7K
IC5721
C0DABYY00002
SWITCHING REGULATOR
D
D
START
OCP
VCC
GND
FB
C5729
50V22
R5727
2.2K
PC5721
B3PBA0000237
Q5706
B1AAKD000012
REGULATOR
R5702
8.2
0.5W
Q5752
B1ACKD000005
SWITCHING
FL+
R5716
180
D5713
B0BC4R0A0006
C5715
16V47
R5787
680
C5800
16V220
C5738
680P
R5774
4.7
D5746
B0BC5R600003
C5725
50V2.2
R5777
1K
D5752
B0BC5R000009
FL-
Q5801
B3PBA0000237
FEED BACK
SYS6V
PCONT
R5790
1K
D5745
B0EAKM000117
F1
125V 8A
ZA5702
EYF52BCY
ZA5701
EYF52BCY
L5701
J0MBA0000013
DZ5701
ERZV10V511CS
R5751
470K
C5701
100V0.22
IC5
C0GAG
MOTOR D
VREF
OUT2
RINF
OUT1
D5751
B0ECKM00001
D5750
B0ECKM00001
14
15
16
17
18
19
20

E SUB POWER CIRCUIT



LINE
:-B SIGNAL LINE
0013
P5701
AC120V
60Hz
CN5710
CN5711
PGND
ZJ5701
ZJ5702
W4011
IC5750
C0GAG0000007
MOTOR DRIVE (TRAY)
VREF
OUT2
RINF
OUT1
VM
VCC
F-IN
GND
R-IN
CN5701
-30_VDD
-VCC
GND
+30_VDD
+VCC
DC_DET
SYS6V
SYNC
DC_GND
SW+SVGND
DC+13V
+20V
AM_BP
PCONT
TO B MAIN CIRCUIT (H2010) on SCHEMATIC DIAGRAM-11
TURN_REV
TURN_FWD
C+9V
CN5702
TRV-
TRV+
DGND
PHOTO_DRIVER
DISC_SENSOR
PULSE_SENSOR
POSITION_SENSOR
DISC_SENS
PULSE
POSITION
L5750 J0JBC0000015
L5752 J0JBC0000015
L5753 J0JBC0000015
TO J SENSOR CIRCUIT (CN9102) on SCHEMATIC DIAGRAM-16
R5750 330
R5780 330
R5753 330
R5752 4.7K
R5781 10K
D5751 B0ECKM000016
D5750 B0ECKM000016
Q5750 B1GBCFJJ0051
MOTOR DRIVE
PWM
CN5709
CN5712
CN5707
NC
KEY1
VSSGND
DGND
VREF
RMT
FL+
FL-
F+
F-
FLGND
SW+5V
FL_IC_DATA
FL_IC_CLOCK
FL_ICSTB
FL_IC_STB
-VP
WIDESURR LED
DISC1_LED
AGND
MPORT_CTRL
KEY2
JOG_LED
JOG_B
JOG_A
HP-RCH
HP-LCH
CN5713
CN5706
CN5705
TO F FL CIRCUIT (CN6902) on SCHEMATIC DIAGRAM-15
TO G HEADPHONE CIRCUIT (CN6901) on SCHEMATIC DIAGRAM-15
CN5708
MGND
BLUELED
TO B MAIN CIRCUIT (CN2007) on SCHEMATIC DIAGRAM-11
L5705 J0JBC0000019
H
G
F
E
D
C
B
A
20
21
22
23
24
25
26

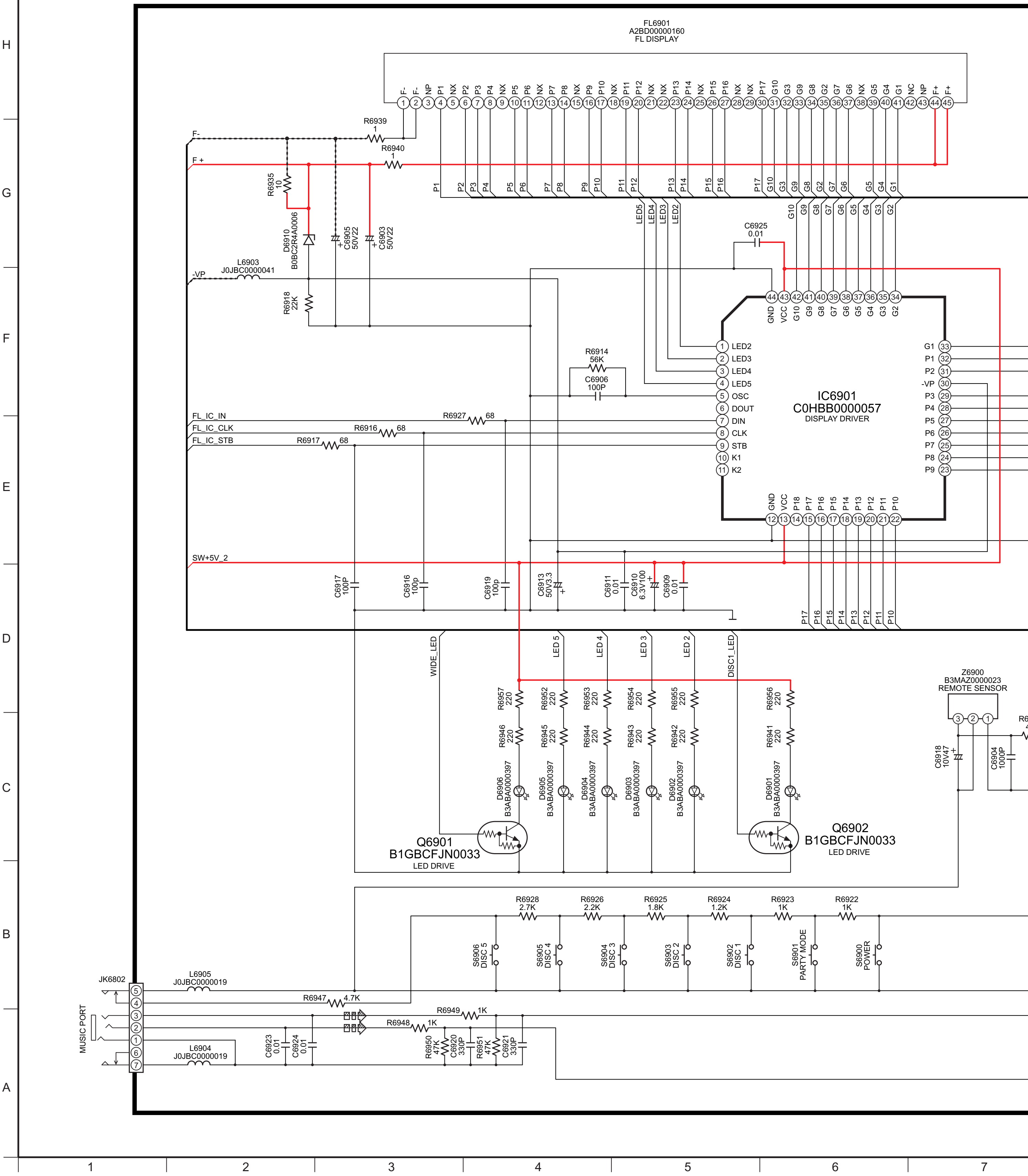
SA-HT940P/PC POWER(SMPS) /AC-INLET/SUB POWER CIRCUIT

19.4. (C) FL and Headphone Circuit

SCHEMATIC DIAGRAM-15

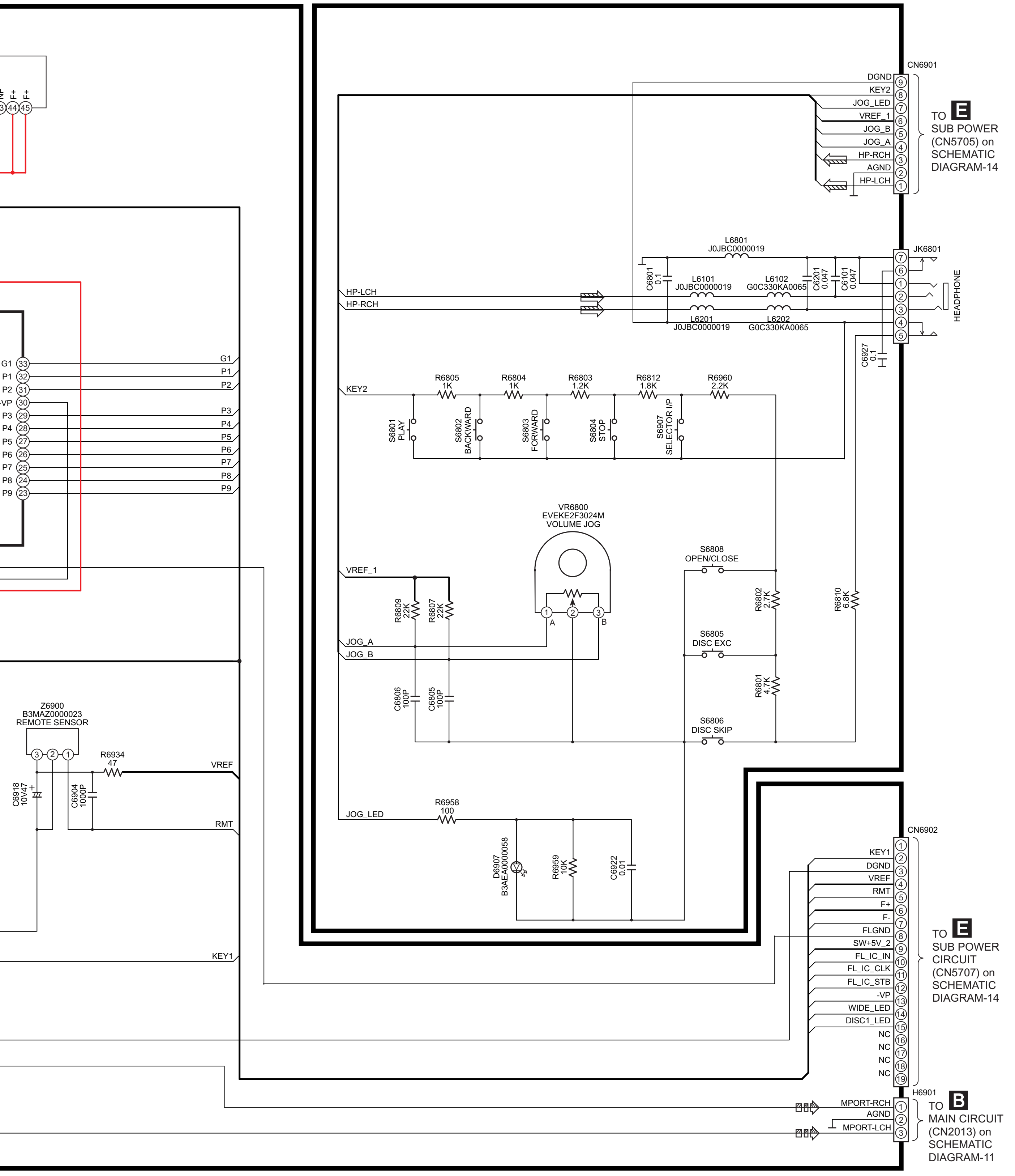
F FL CIRCUIT

:+B SIGNAL LINE   :-B SIGNAL LINE   : MUSIC PORT SIGNAL LINE   : MAIN SIGNAL LINE



FL6901
A2BD00000160
FL DISPLAY
F- F- NP P1 NX P2 P3 P4 NX P5 P6 NX P7 P8 NX P9 P10 NX P11 P12 NX NX P13 P14 NX P15 P16 NX NX P17 G10 G3 G9 G8 G2 G7 G6 NX G5 G4 G1 NC NP F+ F+
R6939
1
R6940
1
F-
F +
R6935
10
D6910
B0BC2R4A0006
C6905
50V22
C6903
50V22
-VP
L6903
J0JBC0000041
R6918
22K
LED5 LED4 LED3 LED2
C6925
0.01
GND VCC G10 G9 G8 G7 G6 G5 G4 G3 G2
LED2 LED3 LED4 LED5 OSC DOUT DIN CLK STB K1 K2
G1 P1 P2 -VP P3 P4 P5 P6 P7 P8 P9
IC6901
C0HBB0000057
DISPLAY DRIVER
GND VCC P18 P17 P16 P15 P14 P13 P12 P11 P10
R6914
56K
C6906
100P
FL_IC_IN
FL_IC_CLK
FL_IC_STB
R6927
68
R6916
68
R6917
68
SW+5V_2
C6917
100P
C6916
100p
C6919
100p
C6913
50V3.3
C6911
0.01
C6910
6.3V100
C6909
0.01
WIDE_LED
LED 5
LED 4
LED 3
LED 2
DISC1_LED
R6957 220
R6952 220
R6953 220
R6954 220
R6955 220
R6956 220
R6946 220
R6945 220
R6944 220
R6943 220
R6942 220
R6941 220
D6906 B3ABA0000397
D6905 B3ABA0000397
D6904 B3ABA0000397
D6903 B3ABA0000397
D6902 B3ABA0000397
D6901 B3ABA0000397
Q6901
B1GBCFJN0033
LED DRIVE
Q6902
B1GBCFJN0033
LED DRIVE
Z6900
B3MAZ0000023
REMOTE SENSOR
C6918
10V47
C6904
1000P
R6928 2.7K
R6926 2.2K
R6925 1.8K
R6924 1.2K
R6923 1K
R6922 1K
S6906 DISC 5
S6905 DISC 4
S6904 DISC 3
S6903 DISC 2
S6902 DISC 1
S6901 PARTY MODE
S6900 POWER
JK6802
MUSIC PORT
L6905
J0JBC0000019
L6904
J0JBC0000019
R6947 4.7K
R6949 1K
R6948 1K
C6923 0.01
C6924 0.01
R6950 47K
C6920 330P
R6951 47K
C6921 330P
H G F E D C B A
1 2 3 4 5 6 7

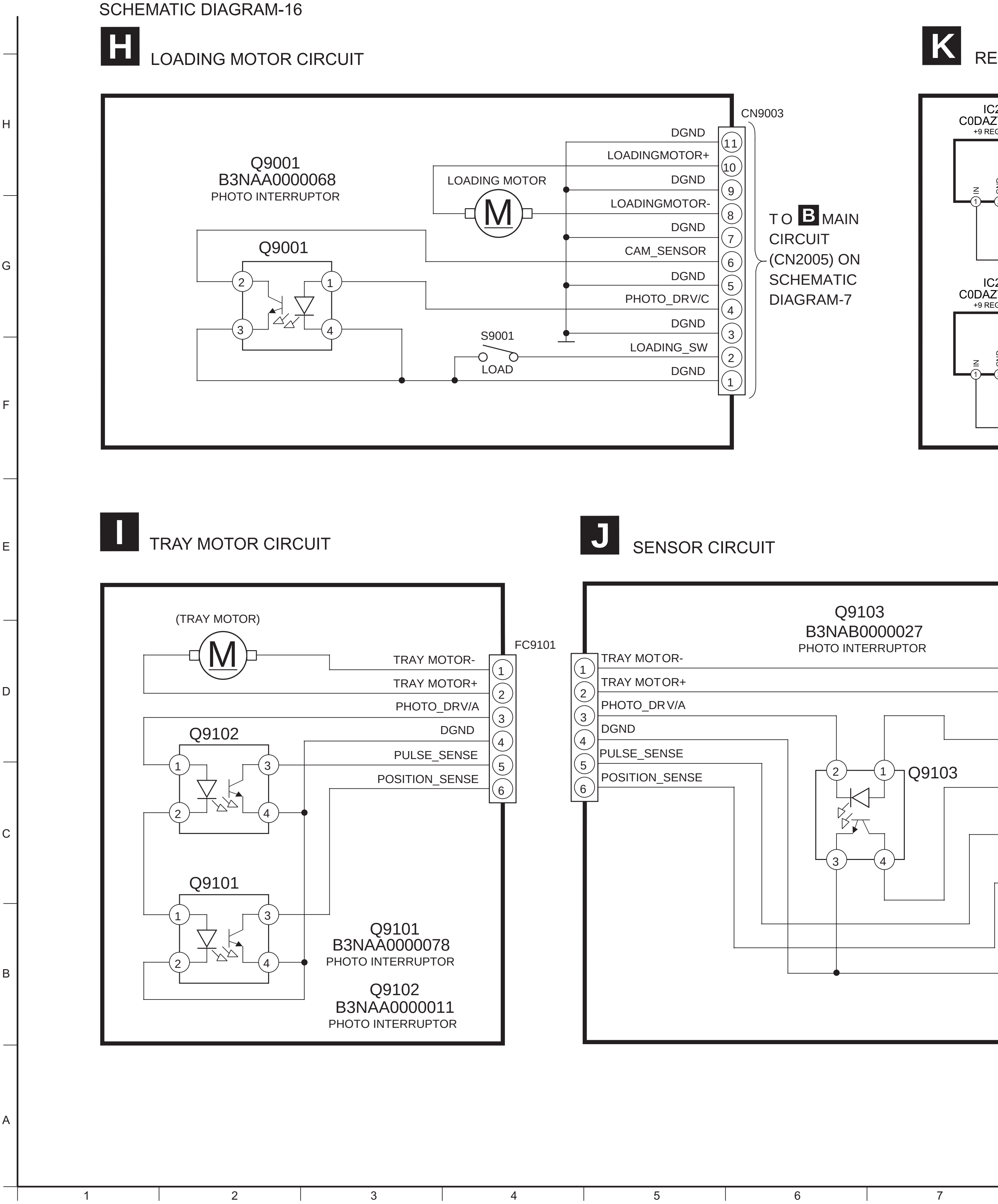
G HEADPHONE CIRCUIT


CN6901
DGND
KEY2
JOG_LED
VREF_1
JOG_B
JOG_A
HP-RCH
AGND
HP-LCH
TO E SUB POWER (CN5705) on SCHEMATIC DIAGRAM-14
L6801
J0JBC0000019
C6801
0.1
L6101
J0JBC0000019
L6102
G0C330KA0065
C6201
0.047
C6101
0.047
JK6801
HEADPHONE
HP-LCH
HP-RCH
L6201
J0JBC0000019
L6202
G0C330KA0065
C6927
0.1
KEY2
R6805
1K
R6804
1K
R6803
1.2K
R6812
1.8K
R6960
2.2K
S6801
PLAY
S6802
BACKWARD
S6803
FORWARD
S6804
STOP
S6907
SELECTOR I/P
VR6800
EVEKE2F3024M
VOLUME JOG
A
B
VREF_1
R6809
22K
R6807
22K
JOG_A
JOG_B
C6806
100P
C6805
100P
S6808
OPEN/CLOSE
R6802
2.7K
R6810
6.8K
S6805
DISC EXC
R6801
4.7K
S6806
DISC SKIP
JOG_LED
R6958
100
D6907
B3AEA0000058
R6959
10K
C6922
0.01
CN6902
KEY1
DGND
VREF
RMT
F+
F-
FLGND
SW+5V_2
FL_IC_IN
FL_IC_CLK
FL_IC_STB
-VP
WIDE_LED
DISC1_LED
NC
NC
NC
NC
TO E SUB POWER CIRCUIT (CN5707) on SCHEMATIC DIAGRAM-14
H6901
MPORT-RCH
AGND
MPORT-LCH
TO B MAIN CIRCUIT (CN2013) on SCHEMATIC DIAGRAM-11
F+
F+
G1
P1
P2
-VP
P3
P4
P5
P6
P7
P8
P9
G1
P1
P2
P3
P4
P5
P6
P7
P8
P9
Z6900
B3MAZ0000023
REMOTE SENSOR
R6934
47
VREF
C6918
10V47
C6904
1000P
RMT
KEY1

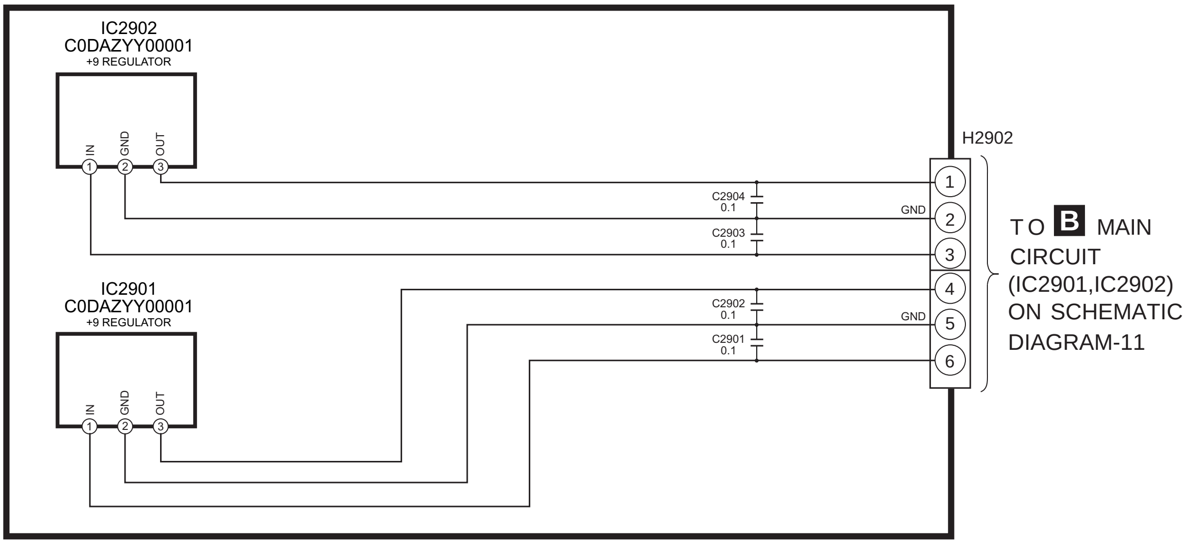
SA-HT940P/PC FL/HEADPHONE CIRCUIT

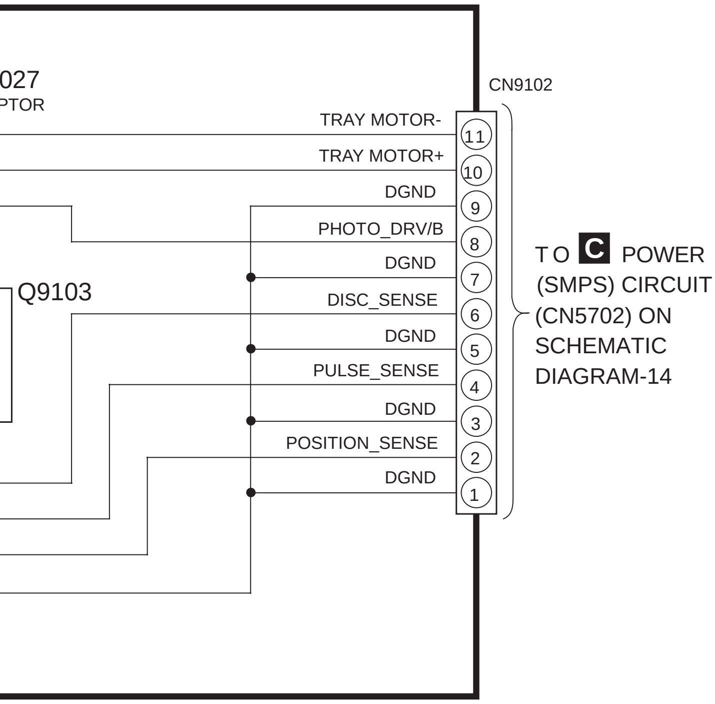
7 8 9 10 11 12 13

19.5. (D) Loading Motor, Tray Motor, Sensor and Regulator Circuit

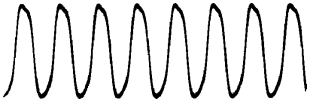

SCHEMATIC DIAGRAM-16
H
LOADING MOTOR CIRCUIT
Q9001
B3NAA0000068
PHOTO INTERRUPTOR
Q9001
LOADING MOTOR
M
S9001
LOAD
CN9003
DGND
LOADINGMOTOR+
DGND
LOADINGMOTOR-
DGND
CAM_SENSOR
DGND
PHOTO_DRV/C
DGND
LOADING_SW
DGND
11
10
9
8
7
6
5
4
3
2
1
TO B MAIN CIRCUIT (CN2005) ON SCHEMATIC DIAGRAM-7
K
RE
IC2
C0DAZ
+9 REG
IN
I
TRAY MOTOR CIRCUIT
(TRAY MOTOR)
M
FC9101
TRAY MOTOR-
TRAY MOTOR+
PHOTO_DRV/A
DGND
PULSE_SENSE
POSITION_SENSE
Q9102
Q9101
Q9101
B3NAA0000078
PHOTO INTERRUPTOR
Q9102
B3NAA0000011
PHOTO INTERRUPTOR
J
SENSOR CIRCUIT
Q9103
B3NAB0000027
PHOTO INTERRUPTOR
TRAY MOTOR-
TRAY MOTOR+
PHOTO_DRV/A
DGND
PULSE_SENSE
POSITION_SENSE
Q9103
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7

K REGULATOR CIRCUIT


IC2902
C0DAZYY00001
+9 REGULATOR
IN
GND
OUT
1
2
3
C2904
0.1
C2903
0.1
IC2901
C0DAZYY00001
+9 REGULATOR
IN
GND
OUT
1
2
3
C2902
0.1
C2901
0.1
GND
GND
H2902
1
2
3
4
5
6
TO B MAIN
CIRCUIT
(IC2901,IC2902)
ON SCHEMATIC
DIAGRAM-11

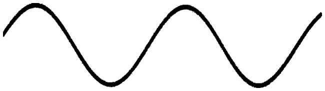

027
PTOR
Q9103
CN9102
TRAY MOTOR-
TRAY MOTOR+
DGND
PHOTO_DRV/B
DGND
DISC_SENSE
DGND
PULSE_SENSE
DGND
POSITION_SENSE
DGND
11
10
9
8
7
6
5
4
3
2
1
TO C POWER
(SMPS) CIRCUIT
(CN5702) ON
SCHEMATIC
DIAGRAM-14

WF No. IC2001-12 (PLAY)



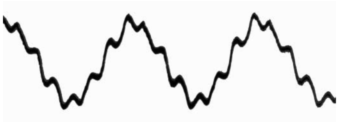
5.4Vp-p(100nsec/div)

WF No. IC2102-20 (PLAY)



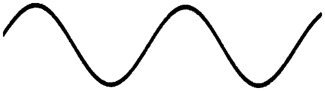
0.1Vp-p(500usec/div)

WF No. IC2102-30 (PLAY)



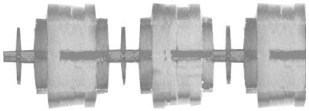
4.4Vp-p(5msec/div)

WF No. IC2103-7 (PLAY)



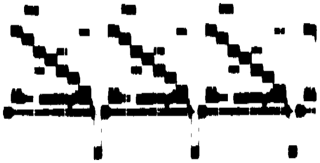
1.2Vp-p(500usec/div)

WF No. IC2801-4 (PLAY)



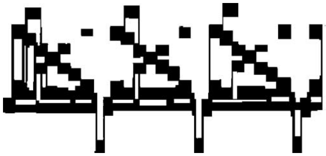
0.7Vp-p(2msec/div)

WF No. IC2801-8 (PLAY)



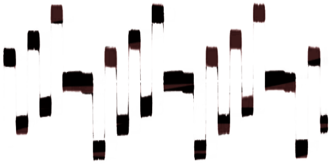
1.1Vp-p(20usec/div)

WF No. IC2801-11 (PLAY)



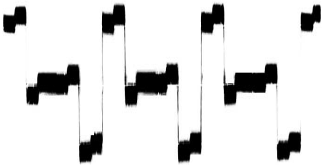
1Vp-p(20usec/div)

WF No. IC2801-13 (PLAY)



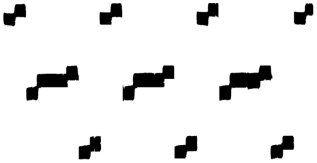
0.5Vp-p(20usec/div)

WF No. IC2801-15 (PLAY)



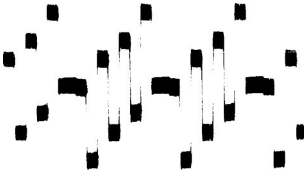
0.4Vp-p(20usec/div)

WF No. IC2801-18 (PLAY)



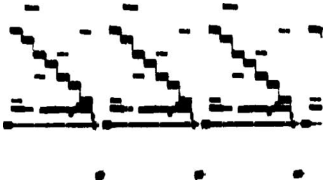
0.9Vp-p(20usec/div)

WF No. IC2801-21 (PLAY)



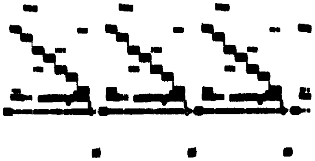
0.9Vp-p(20usec/div)

WF No. IC2801-24 (PLAY)



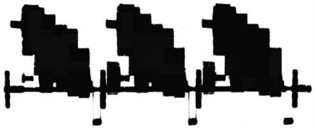
2.2Vp-p(20usec/div)

WF No. IC2801-27 (PLAY)



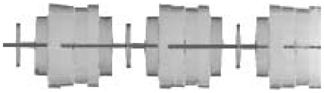
2.2Vp-p(20usec/div)

WF No. IC2801-30 (PLAY)



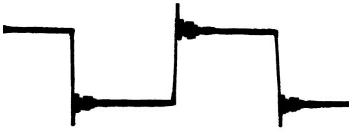
2.2Vp-p(20usec/div)

WF No. IC2801-32 (PLAY)



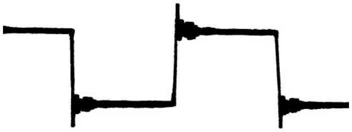
1.3Vp-p(20usec/div)

WF No. IC5001-30 (PLAY)



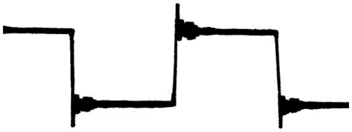
92Vp-p(500nsec/div)

WF No. IC5001-36 (PLAY)



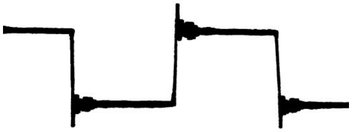
96Vp-p(500nsec/div)

WF No. IC5001-49 (PLAY)



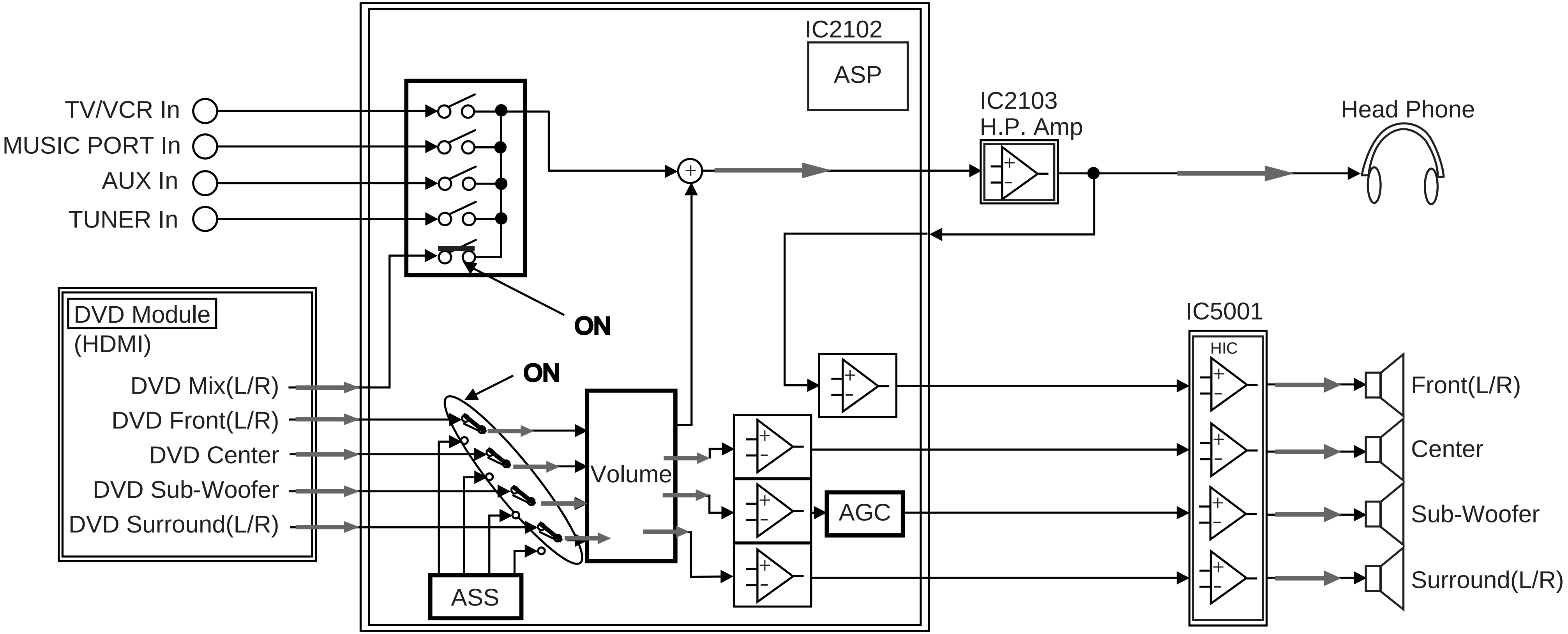
96Vp-p(500nsec/div)

WF No. IC5001-40 (PLAY)

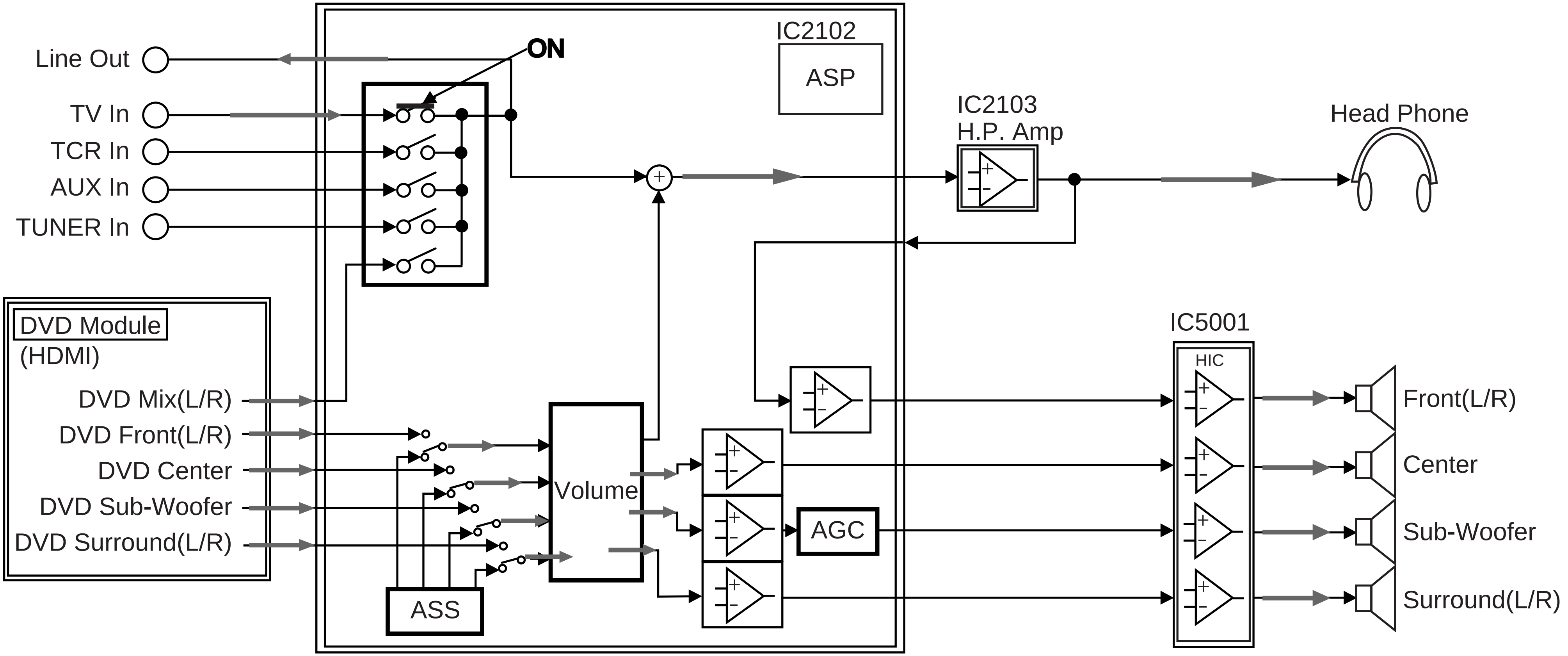


100Vp-p(500nsec/div)

DVD 5.1ch Play Back Mode


IC2102
ASP
IC2103
H.P. Amp
Head Phone
TV/VCR In
MUSIC PORT In
AUX In
TUNER In
ON
DVD Module
(HDMI)
DVD Mix(L/R)
DVD Front(L/R)
DVD Center
DVD Sub-Woofer
DVD Surround(L/R)
ON
Volume
ASS
AGC
IC5001
HIC
Front(L/R)
Center
Sub-Woofer
Surround(L/R)

2ch Analog input Mode


Line Out
TV In
TCR In
AUX In
TUNER In
ON
IC2102
ASP
IC2103
H.P. Amp
Head Phone
DVD Module
(HDMI)
DVD Mix(L/R)
DVD Front(L/R)
DVD Center
DVD Sub-Woofer
DVD Surround(L/R)
Volume
AGC
ASS
IC5001
HIC
Front(L/R)
Center
Sub-Woofer
Surround(L/R)

Ref No.	IC6901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	4.9	0	0	-0.1	2.8	-	0.7	4.6	3.7	-	-	0	4.8	-21.0	-21.0	-18.9	-18.8	-14.7	-18.9	-14.7
STANDBY	4.9	0	0	0	2.8	-	0.7	4.6	3.7	-	-	0	4.9	-21.0	-21.0	-21.0	-18.9	-10.5	-8.4	-14.7

Ref No.	IC6901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-12.9	-21.0	-21.0	-14.7	-14.7	-18.9	-21.0	-21.0	-16.8	-21.4	-14.9	-12.8	-19.1	-19.1	-19.1	-19.1	-19.1	-19.1	-19.1	-19.1
STANDBY	-14.7	-21.0	-18.9	-10.5	-10.5	-16.8	-21.0	-18.9	-8.4	-21.4	-12.7	-10.6	-19.1	-19.1	-19.1	-19.1	-19.1	-19.1	-19.1	-19.1

Ref No.	IC6901																			
MODE	41	42	43	44																
CD PLAY	-19.1	-19.1	4.9	-0.1																
STANDBY	-19.1	-19.1	4.9	0																

Ref No.	Q6901				Q6902															
MODE	E	C	B		E	C	B													
CD PLAY	-0.1	4.5	0		0	3.8	0													
STANDBY	0	4.7	0		0	3.8	0													

Ref No.	IC3701																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0.1	0.1	0.1	0.1	0.1	0.1	3.4	0.1	3.4	0.3	0.1	0.1	3.3	3.2	0.1	0.1	3.4	3.4	1.1
Ref No.	IC3701																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.3	0.1	0	0.1	0.1	0	3.4	4.6	0.1	0.1	1.8	1.7	0.1	0.1	0.1	0.1	0.1	0.1	0	0
Ref No.	IC3701																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.1	0.1	3.4	-	0.1	3.4	1.6	0.1	3.4	3.4	1.6	3.4	3.4	1.4	3.4	0.1	0.1	0.3	0.1	3.4
Ref No.	IC3701																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	3.4	1.3	0.2	0.2	1.5	0.1	3.4	1.6	1.5	0.1	0.1	3.4	3.4	3.4	1.6	0.1	0.1	3.4	3.4	0.1
Ref No.	IC3701																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0.1	0.1	0.1	0.1	0.1	3.4	3.4	1.5	1.5	1.5	0.1	0.2	1.6	0.1	0.1	3.4	3.4	1.5	3.4	3.4
Ref No.	IC3701																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	0.1	0.1	0.1	3.3	3.4	1.5	0.1	0.1	0.1	1.5	3.4	1.4	1.5	3.4	3.4	1.5	1.5	0.1	0.1	1.5
Ref No.	IC3701																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	3.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	3.4	0.1	0.1	0.1
Ref No.	IC3701																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
CD PLAY	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.4	3.4	1.6	0.9	0.8	1.6	0.1	0.1	1.4	1.6	1.9
Ref No.	IC3701																			
MODE	161	162	163	164																
CD PLAY	1.6	0.2	0.1	0.1																
Ref No.	IC3782																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	1.9	-	1.3	0.1	2.5	-	-	3.1												
Ref No.	IC3901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.1	3.2	0.1	1.9	1.7	1.7	0.1	0.1	0.1	0.1	1.7	1.7	3.4	0.1	0.1	1.9	3.4	0.1	3.4	3.4
Ref No.	IC3901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.1	0.1	3.4	3.4	0.1	0.4	3.4	3.4	1.6	0.1	0.1	1.4	1.4	3.4	1.8	0.1	3.4	3.4	0.1	0.1
Ref No.	IC3901																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.1	0.1	3.4	3.4	1.9	0.1	0.1	3.4	2.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.8	0.1
Ref No.	IC3901																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0.1	2.6	0.1	0.1	0.1	1.8	0.1	0.1	0.1	0.1	3.4	0.1	0.1	1.9	0.1	0.1	0.1	0.1	0.1	0.1
Ref No.	IC3931																			
MODE	1	2	3	4	5															
CD PLAY	3.3	0.1	0.1	0.1	3.4															
Ref No.	IC3952																			
MODE	1	2	3	4	5															
CD PLAY	8.7	0.1	1.2	5.1	9.1															
Ref No.	IC8001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.1	0.1	3.4	0.1	0.1	0.1	0.1	3.4	3.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.4	0.1
Ref No.	IC8001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.1	3.4	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.3	0.1	0.1	1.2	1.3	1.3	0.1	1.3
Ref No.	IC8001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.1	0.1	0.1	0.1	0.2	0.1	3.4	0.1	0.1	0.1	0.1	0.1	0.1	3.4	3.4	3.4	0.1	0.1	0.1	0.1
Ref No.	IC8001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0.1	0.1	3.4	3.4	0.1	3.4	3.4	0.1	3.4	3.4	3.4	0.1	0.2	3.4	3.4	3.4	1.7	3.0	0.1	3.4
Ref No.	IC8001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	3.4	0.1	1.2	3.4	0.1	3.4	0.1	0.1	3.4	1.2	1.7	0.1	3.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Ref No.	IC8001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	0.1	3.4	1.0	0.1	2.4	1.9	0.2	0.1	0.1	3.4	1.2	0.4	1.8	1.9	0.1	0.3	0.2	0.1	3.4	3.4
Ref No.	IC8001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	3.4	0.1	0.1	0.1	0	0	2.3	1.7	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	1.7
Ref No.	IC8001																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
CD PLAY	1.7	1.7	0.9	1.7	1.7	3.4	1.0	1.0	0.4	3.4	1.8	1.0	1.0	1.8	1.8	0	0.7	3.4	0.3	0
Ref No.	IC8001																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
CD PLAY	3.4	0.1	1.6	1.7	1.4	1.2	1.6	1.7	1.3	0.1	0.1	0.6	0.9	1.7	0.1	3.4	1.1	1.0	1.4	1.4
Ref No.	IC8001																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
CD PLAY	1.4	1.6	1.3	3.0	0.1	1.7	3.4	3.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.4	3.0	1.9	2.8
Ref No.	IC8001																			
MODE	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
CD PLAY	2.5	3.1	2.8	3.4	3.4	0.1	3.4	3.2	3.4	3.4	3.2	1.8	1.9	3.2	3.4	0.2	1.1	2.9	2.9	2.9
Ref No.	IC8001																			
MODE	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
CD PLAY	3.4	0.1	0.3	3.4	1.7	0.1	3.4	3.4	3.4	0	0	0	0.1	1.7	0.1	0.1	0.1	0.1	3.1	1.6
Ref No.	IC8001																			
MODE	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256				
CD PLAY	0.1	1.7	0.1	1.7	0.1	1.6	1.4	1.4	0.1	3.4	0.1	0.1	0.1	0.1	0.1	0.1				
Ref No.	IC8051																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.4	2.9	3.4	3.1	3.0	1.0	3.0	3.3	3.4	3.0	2.9	1.0	2.8	3.4	2.6	3.3	3.3	3.3	3.1	1.9
Ref No.	IC8051																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.7	0.2	0.1	0.2	0.2	1.4	3.4	0.1	1.6	1.7	1.7	1.6	1.0	0.1	0.1	-	3.4	1.7	2.7	-
Ref No.	IC8051																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
CD PLAY	0.1	3.0	3.4	3.2	3.1	0.1	3.0	3.4	2.9	2.9	2.9	0.1	3.1	0.1						

Ref No.	IC8111																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.4	-	0.1	2.0	5.0	-	-	4.9												
Ref No.	IC8151																			
MODE	1	2	3	4	5															
CD PLAY	3.1	3.1	0.1	1.3	0.8															
Ref No.	IC8251																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.7	1.7	1.7	2.1	2.2	2.0	0.1	4.9	3.4	0.1	2.4	2.6	2.5	2.5	4.3	4.3	5.2	3.5	0	3.4
Ref No.	IC8251																			
MODE	21	22	23	24	25	26	27	28												
CD PLAY	9.1	8.9	1.8	1.7	1.7	1.7	3.4	4.9												
Ref No.	IC8421																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	5.0	3.4	3.0	3.4	1.0	1.0	1.7	5.0	0	1.0	0.1	0.1	0	0	2.5	2.5	5.0	0.1	2.5	2.5
Ref No.	IC8421																			
MODE	21	22	23	24	25	26	27	28												
CD PLAY	2.6	2.1	5.0	0	2.5	2.5	2.5	0												
Ref No.	IC8601																			
MODE	1	2	3	4																
CD PLAY	3.3	1.2	0.1	0.1																
Ref No.	IC8606																			
MODE	1	2	3	4	5															
CD PLAY	3.4	3.4	0.1	0.1	-															
Ref No.	IC8611																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.1	0.1	0.1	0.1	3.3	3.3	0.1	3.4												
Ref No.	IC8651																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.1	0.1	3.4	3.4	3.4	3.4	1.0	0.1	0.1	3.4	3.4	3.4
Ref No.	IC8651																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLA	3.4	3.4	3.4	3.4	3.4	3.4	0.1	3.9	1.3	1.5	0.7	1.5	1.0	1.1	1.3	3.4	1.6	1.1	1.0	1.0
Ref No.	IC8651																			
MODE	41	42	43	44	45	46	47	48												
CD PLAY	1.0	1.6	1.1	1.2	1.3	0.1	3.4	1.4												
Ref No.	IC8691						IC8695						IC8701							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5			
CD PLAY	3.0	3.0	0.1	4.4	4.9		2.8	2.9	0.1	4.0	4.9		-	1.7	0.1	1.5	3.4			
Ref No.	Q3901				Q3902				Q3903				Q3941				Q3942			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.2	4.6	0.7		3.4	5.1	3.4		3.4	5.1	3.4		1.0	0.7	1.0		0.1	0.7	-0.7	
Ref No.	Q3943				Q8551				Q8552				Q8561				Q8562			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.1	0.1	0.1		0.1	5.0	1.0		5.0	1.0	5.0		1.0	2.1	1.6		4.9	0	4.9	
Ref No.	QR8111							QR8420				QR8571								
MODE	1	2	3	4	5	6		E	C	B		E	C	B						
CD PLAY	0.1	0.1	1.3	0.1	0.1	5.0		0.1	4.1	0.1		3.4	3.3	0.1						

Loading Motor P.C.B.

Ref No.	Q9001																			
MODE	1	2	3	4																
CD PLAY	1.2	4.5	0	0																
STANDBY	0.2	4.8	0	0																

Tray Motor P.C.B.

Ref No.	Q9101					Q9102														
MODE	1	2	3	4		1	2	3	4											
CD PLAY	1.2	0	4.7	0		2.5	1.2	0.1	0											
STANDBY	0.1	0	4.8	0		0.4	-0.2	4.8	0											

Sensor P.C.B.

Ref No.	Q9103																			
MODE	1	2	3	4																
CD PLAY	3.7	2.5	0	0.2																
STANDBY	0.2	0.4	0	4.7																

Regulator P.C.B.

Ref No.	IC2901					IC2902														
MODE	1	2	3	4		1	2	3												
CD PLAY	3.7	2.5	0	0.2		12.1	0	9.1												
STANDBY	0.2	0.4	0	4.7		12.7	0	9.1												

Ref No.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	2.9	4.9	0	2.0	3.4	0.7	1.9	2.4	4.9	5.0	-	2.3	0	0	5.0	0	4.9	4.9	4.9
STANDBY	0	2.9	4.9	0	2.0	3.4	0.7	2.0	2.4	4.9	4.9	-	2.3	0	0	4.9	0	4.8	4.9	0

Ref No.	IC2001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	4.8	4.8	-	0.4	2.6	3.1	4.9	4.9	4.7	0	0	0	0.7	4.9	4.9
STANDBY	0	0	0	0	0	4.8	-	-	0.2	0.1	3.2	4.9	4.9	4.7	0	0	0	0.7	4.9	4.9

Ref No.	IC2001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	4.9	3.1	4.2	4.6	0	4.9	0	0	4.9	0	0	4.9	0	0	0	0	0	0	4.9	0
STANDBY	4.9	3.1	4.3	4.7	5.3	4.9	0	0	4.9	4.5	0	4.9	0	0	0	0	0	0	4.9	0

Ref No.	IC2001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	4.9	0	0	4.9	0	4.8	0	4.8	4.7	4.8	4.8	0	0	0	0	0	0	0	0	0
STANDBY	4.9	0	0	4.8	0	4.8	0	4.8	4.6	4.9	4.8	0	0	0	0	0	0	0	0	0

Ref No.	IC2001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	4.9	0	0	0	0	0	3.8	0	4.6	0.6	0	0	4.9	0	0	0	0	0	0	4.9
STANDBY	4.9	0	0	0	0	0	3.7	0	4.6	0.7	0	0	4.9	0	0	0	0	0	0	4.9

Ref No.	IC2003								
MODE	1	2	3	4	5	6	7	8	9
CD PLAY	0	0.3	0	0.3	8.7	9.1	0	0	0
STANDBY	0	0.3	0	0.3	8.6	9.1	0	0	0

Ref No.	IC2004							
MODE	1	2	3	4	5	6	7	8
CD PLAY	-	4.9	0	0	0	0	0	-
STANDBY	-	4.9	0	0	0	0	0	-

Ref No.	IC2102																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ref No.	IC2102																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	0	0	0	-0.1	0	0	0	0	-0.1	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ref No.	IC2102																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	0	0	0	0	0	0	0	1.4	-0.1	0	0	0	0	0	0.2	-	-	-0.1
STANDBY	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	-	-	-0.1

Ref No.	IC2102																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	-0.1	0	0	4.9	0	5.1	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0
STANDBY	-0.1	0	0	4.9	0	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ref No.	IC2102																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	-0.1	0	0	-6.9	6.9	0	0	-0.1	-	-	0	0	0	0	0	0	-0.1	0	0
STANDBY	0	0	0	0	-6.9	6.9	0	0	0	-	-	0	0	0	0	0	0	0	0	0

Ref No.	IC2103							
MODE	1	2	3	4	5	6	7	8
CD PLAY	-0.1	-0.1	-0.1	-6.9	0	0	0	6.9
STANDBY	0	0	0	-6.9	0	0	0	6.9

Ref No.	IC2104													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CD PLAY	6.4	5.2	0.2	7.0	0	2.1	6.3	6.2	2.4	0	0.7	0	0.2	6.3
STANDBY	6.4	5.2	0.2	7.0	0	2.1	6.3	6.2	2.4	0	0.7	0	0.2	6.3

Ref No.	IC2105													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CD PLAY	0	0	0	6.9	0	0	0	0	0	0	-6.9	0	0	0
STANDBY	0	0	0	6.9	0	0	0	0	0	0	-6.9	0	0	0

Ref No.	IC2205													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CD PLAY	6.3	6.3	6.4	7.0	0	0.1	-5.5	-0.1	0	0	-6.9	0	0	0
STANDBY	6.3	6.3	6.4	7.0	0	0.1	-5.5	-0.1	0	0	-6.9	0	0	0

Ref No.	IC2301															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CD PLAY	0	6.2	3.3	6.2	-5.5	-5.5	-6.9	0	0	0.1	0	0	0	0	0	7.0
STANDBY	0	6.2	3.3	6.3	-5.5	-5.5	-6.9	0	0	0.1	0	0	0	0	0	7.0

Ref No.	IC2801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	4.9	0	0	2.1	4.7	1.6	0	1.6	2.1	0	1.6	0	2.1	4.7	2.1	4.9	2.2	2.2	0	2.2
STANDBY	4.9	0	0	2.1	4.7	1.5	0	1.5	2.1	0	1.6	0	2.1	4.7	2.1	4.9	2.2	2.2	0	2.2

Ref No.	IC2801											
MODE	21	22	23	24	25	26	27	28	29	30	31	32
CD PLAY	2.2	0	1.5	1.7	0	1.5	2.0	0	1.6	1.8	0	2.2
STANDBY	2.2	0	1.4	1.7	0	1.4	1.7	0	1.5	1.8	0	2.2

Ref No.	IC2903						IC2904		
MODE	1	2	3	4	5		1	2	3
CD PLAY	3.2	1.0	0	-	13.4		9.1	0	5.0
STANDBY	3.2	1.0	0	-	13.6		9.1	0	5.0

Ref No.	IC2906															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CD PLAY	0	0.1	0	0.1	0	0	-6.9	-0.1	0	0	0	0	0	0.1	0.1	6.9
STANDBY	0	0	0.2	0.1	0.1	0	-6.9	0	0	0	0.1	0	0.1	0.1	0.1	6.9

Ref No.	IC2907				IC2908		
MODE	1	2	3		1	2	3
CD PLAY	6.1	5.0	0		6.1	5.0	0
STANDBY	6.1	5.0	0		6.1	5.0	0

Ref No.	Q2001				Q2003				Q2006				Q2095				Q2096			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	4.5		0	4.9	0		0	0	4.1		4.9	4.8	0		0	0.6	0	
STANDBY	0	0	4.5		0	4.9	0		0	5.3	0		4.9	4.8	0		0	0.6	0	
Ref No.	Q2097				Q2098				Q2101							Q2201				
MODE	E	C	B		E	C	B		1	2	3	4	5	6		E	C	B		
CD PLAY	0	0	0.6		0	-	0		0	-4.7	0	-0.1	-4.7	-0.1		0	-4.7	-0.1		
STANDBY	0	0	0.6		0	-	0		0	0.6	0	0	0.6	0		1.7	1.7	0		
Ref No.	Q2303				Q2306							Q2307								
MODE	E	C	B		1	2	3	4	5	6		1	2	3	4	5	6			
CD PLAY	0	-4.6	0		0	-4.6	0.1	0	-4.6	3.3		0	-0.1	0	0	-0.1	0			
STANDBY	0	-4.6	0		0	-4.6	0.1	0	-4.6	3.3		0	-0.8	0	0	-0.8	0			
Ref No.	Q2308							Q2309				Q2310				Q2311				
MODE	1	2	3	4	5	6		E	C	B		E	C	B		E	C	B		
CD PLAY	0	-0.9	0	0	-0.9	0		0	0	4.6		0	-0.1	0		-	-	-		
STANDBY	0	-0.8	0	0	-0.8	0		0	0	4.5		0	-0.7	0		-	-	-		
Ref No.	Q2602				Q2603				Q2801				Q2901				Q2903			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	0.7		0.8	0.7	0		0	4.8	0		0	4.9	-2.5		6.9	18.6	7.5	
STANDBY	0	0	0.7		0.8	0.7	0		0	4.8	0		0	4.9	-2.5		7.0	18.7	7.5	
Ref No.	Q2904				Q2906				Q2907				Q2909				Q2911			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	5.6	9.1	6.3		-6.9	-18.6	-7.4		0	-7.4	-0.6		0	4.9	-2.6		0	0	0.6	
STANDBY	5.6	9.1	6.3		-6.9	-18.6	-7.4		0	-7.4	-0.6		0	4.9	-2.6		0	0	0.7	
Ref No.	Q2912				Q2913				Q2914				Q2935							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
CD PLAY	0	0	0.6		0	0	0.6		5.6	5.6	5.0		3.3	4.4	3.9					
STANDBY	0	0	0.7		0	0.7	0		5.6	5.6	5.0		-	-	-					